

SONY®

COLOR VIDEO CAMERA

DXC-M7P/M7PM

1.5 INCH ELECTRONIC VIEWFINDER

DXF-M7/M7CE

ZOOM LENS

VCL-915BYA

TRIPOD ATTACHMENT

VCT-14

CAMERA CABLE


CCZQ-A2

SERVICE MANUAL

Vol. 2 (1st Edition/Revised 3)



SAFETY RELATED COMPONENT WARNING

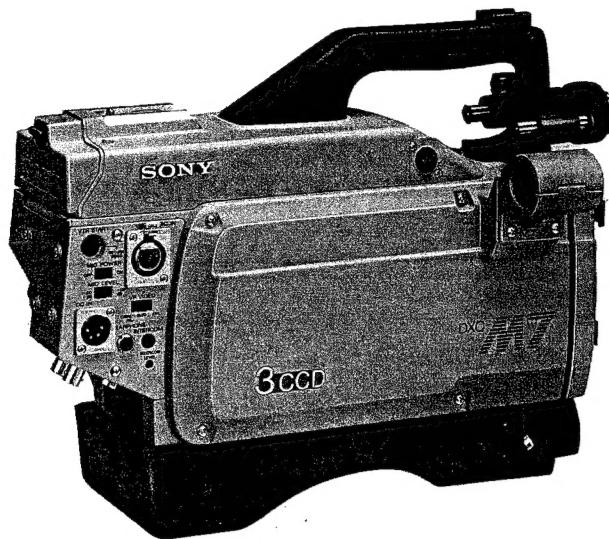
Components identified by shading and  marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

DXC-M7P/M7PM

COLOR VIDEO CAMERA



SPECIFICATION

Camera (DXC-M7/M7P)

Image device	Interline-transfer CCD, 3-chip
Picture elements	768 × 493 (h/v, DXC-M7) 768 × 581 (h/v, DXC-M7P)
Sensing area	8.8 mm × 6.6 mm (equivalent to a 2/3-inch pickup tube)
Built-in filters	1: 3200 K 2: 5600 K + 1/4 ND 3: 5600 K 4: 5600 K + 1/8 ND
Lens mount	Bayonet mount
Signal system	EIA standards, NTSC color system (DXC-M7) CCIR standards, PAL color system (DXC-M7P)
Scanning system	525 lines, 2:1 Interlace, 30 frames/sec. (DXC-M7) 625 lines, 2:1 Interlace, 25 frames/sec. (DXC-M7P)
Scanning frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz (DXC-M7) Horizontal: 15.625 kHz Vertical: 50 Hz (DXC-M7P)
Sync system	Internal External with the composite video or black burst signal supplied to the GEN LOCK input connector or the reference signal input to the 26-pin connector from the GEN LOCK connector of the CCU-M7/M7P or CCU-M3/M3P
Horizontal resolution	700 lines (center)
Minimum illumination	26 lux with F1.8, +18 dB 2,000 lux with F5.6, at 3200 K
Sensitivity	0 dB, 9 dB or 18 dB, selectable
Gain selection	Composite video: 1.0 V (p-p), sync negative, 75 ohms, unbalanced
Video output	Y/C separate: Y: 1.0 V (p-p), sync negative, 75 ohms, unbalanced C: Burst level 0.286 V (p-p), 75 ohms, unbalanced Y/R-Y/B-Y component: Y: 1.0 V (p-p), sync negative, 75 ohms, unbalanced R-Y: 0.525 V (p-p), 75 ohms, unbalanced B-Y: 0.525 V (p-p), 75 ohms, unbalanced
Signal to noise ratio	60 dB (DXC-M7) 58 dB (DXC-M7P)
Registration	0.05 % for Zone I 0.05 % for Zone II 0.05 % for Zone III

Inputs/Outputs

- 26-pin connector: Sony Z-type
- DC IN: XLR-type, Male, 4-pin
- MIC IN: XLR-type, Female, 3-pin, balanced
- GEN LOCK: BNC-type, 75 ohms, unbalanced
- VIDEO OUT: BNC-type, 75 ohms, unbalanced
- LENS: 12-pin
- VF: 8-pin
- LENS REMOTE: 6-pin
- REMOTE: 10-pin
- EARPHONE: minijack
- INTERCOM: mini intercom jack

Power requirements

- 12 V DC

Power consumption

- 16 W (for camera only)

Operating temperature

- 10 °C to +45 °C (14 °F to 113 °F)

Storage temperature

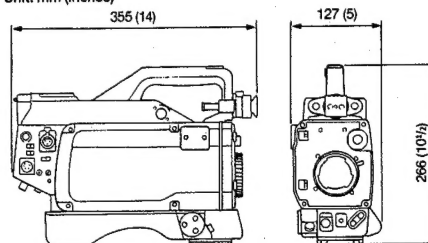
- 20 °C to +60 °C (-4 °F to 140 °F)

Weight

- 3.6 kg (7 lb 15 oz)

Dimensions

Unit: mm (inches)



SONY®

SERVICE MANUAL

COLOR VIDEO CAMERA DXC-M7PM

NOTICE

Please read the model number DXC-M7/M7P as "DXC-M7PM" wherever it appears in the general description of SECTION 1.

The DXC-M7PM is different from the DXC-M7/M7P in the following ways.

Signal system

Your color video camera, DXC-M7PM, is designed for the PAL-M color system. It must be used with video equipment which matches its signal system. Usually, such equipment is identified as a PAL-M model by the code "PM" at the end of its model number.

Please read the model numbers of recommended equipment and optional accessories as follows wherever they appear in the manual:

Special effects generator:

SEG-2550/2550P as SEG-2550PM

SEG-2000A/2000AP as SEG-2000APM

Universal chroma keyer:

CRK-2000/2000P as CRK-2000PM

Wipe pattern extender:

WEX-2000/2000P as WEX-2000PM

Portable videocassette recorder:

BVU-150/150P as BVU-150PM

If a CCU-M3/M7 series camera control unit is to be connected, use a CCU-M3/M7, not a CCU-M3P/M7P. For questions concerning other recommended equipment and optional accessories available in your country, please consult your authorized Sony dealer.

Composition

In "Composition" on page 3 in the instruction manual, three types of color video camera kits are described.

However, only one type of kits is available in your country: the DXC-M7PMK.

The DXC-M7PMK is composed of the following components:

Color video camera: DXC-M7PM

Zoom lens: VCL-915BYA

Viewfinder: DXF-M7

Carrying case: LC-M7G

Camera cable: CCZQ-2A

Tripod attachment: VCT-14

Microphone holder: CAC-1

Flange focal length adjustment chart

Specifications

- Signal system: PAL-M color system
- For the items which comprise specified values for both the NTSC and PAL models, such as "Picture elements", "Scanning system", "Scanning frequency", "Sensitivity", "Signal to noise ratio", the specifications for the NTSC model are applied.

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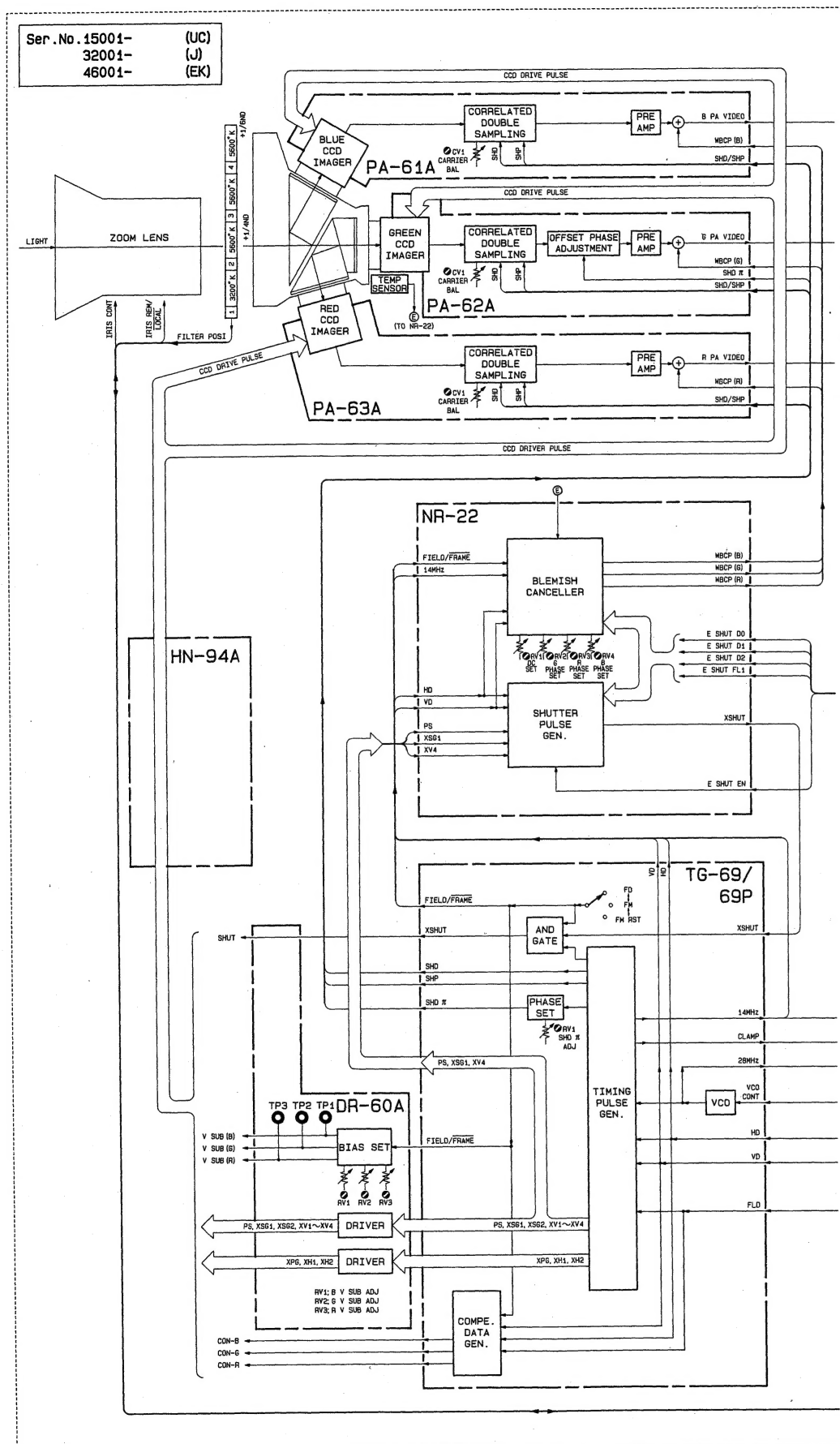
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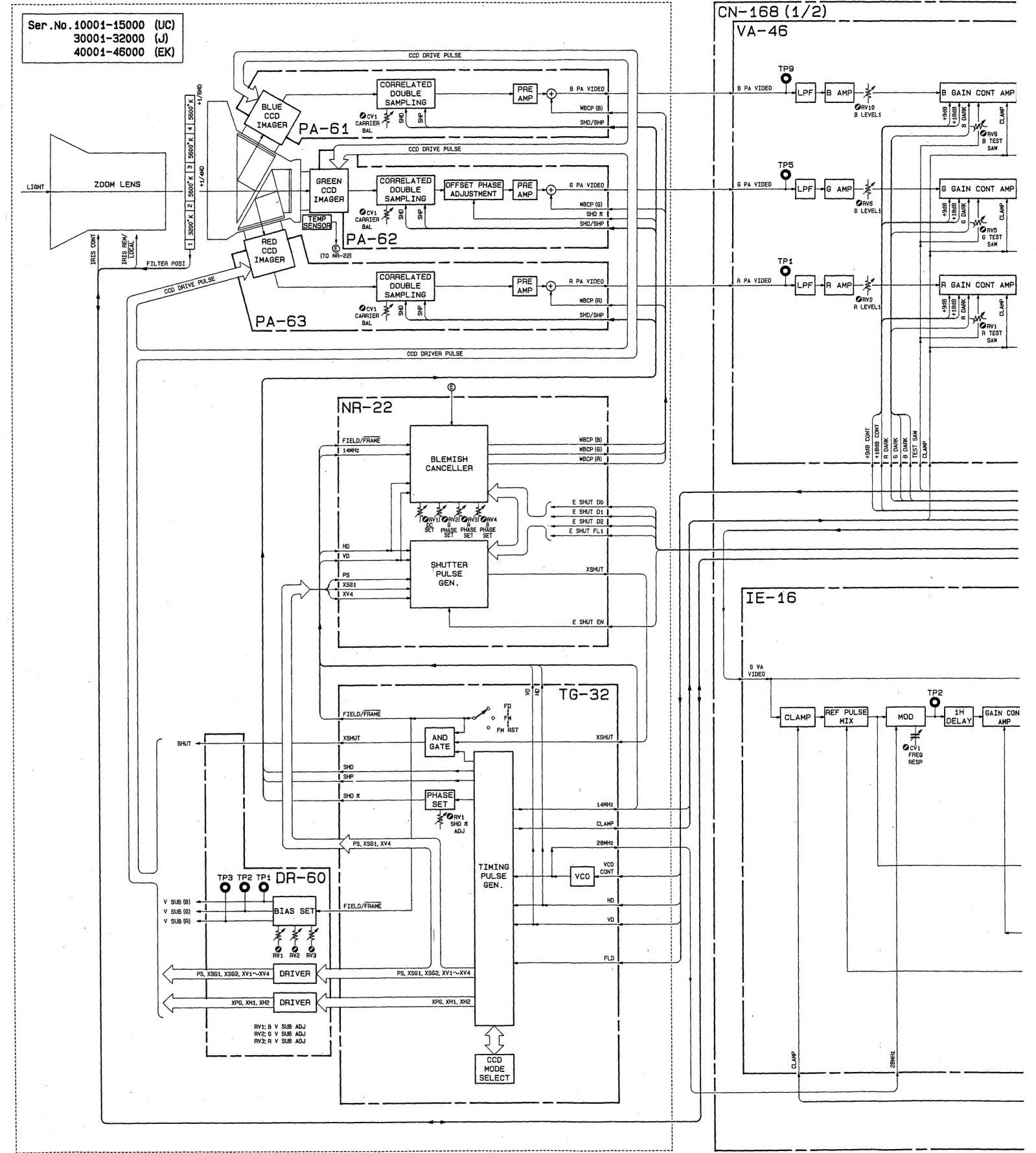
SECTION 4

BLOCK DIAGRAMS

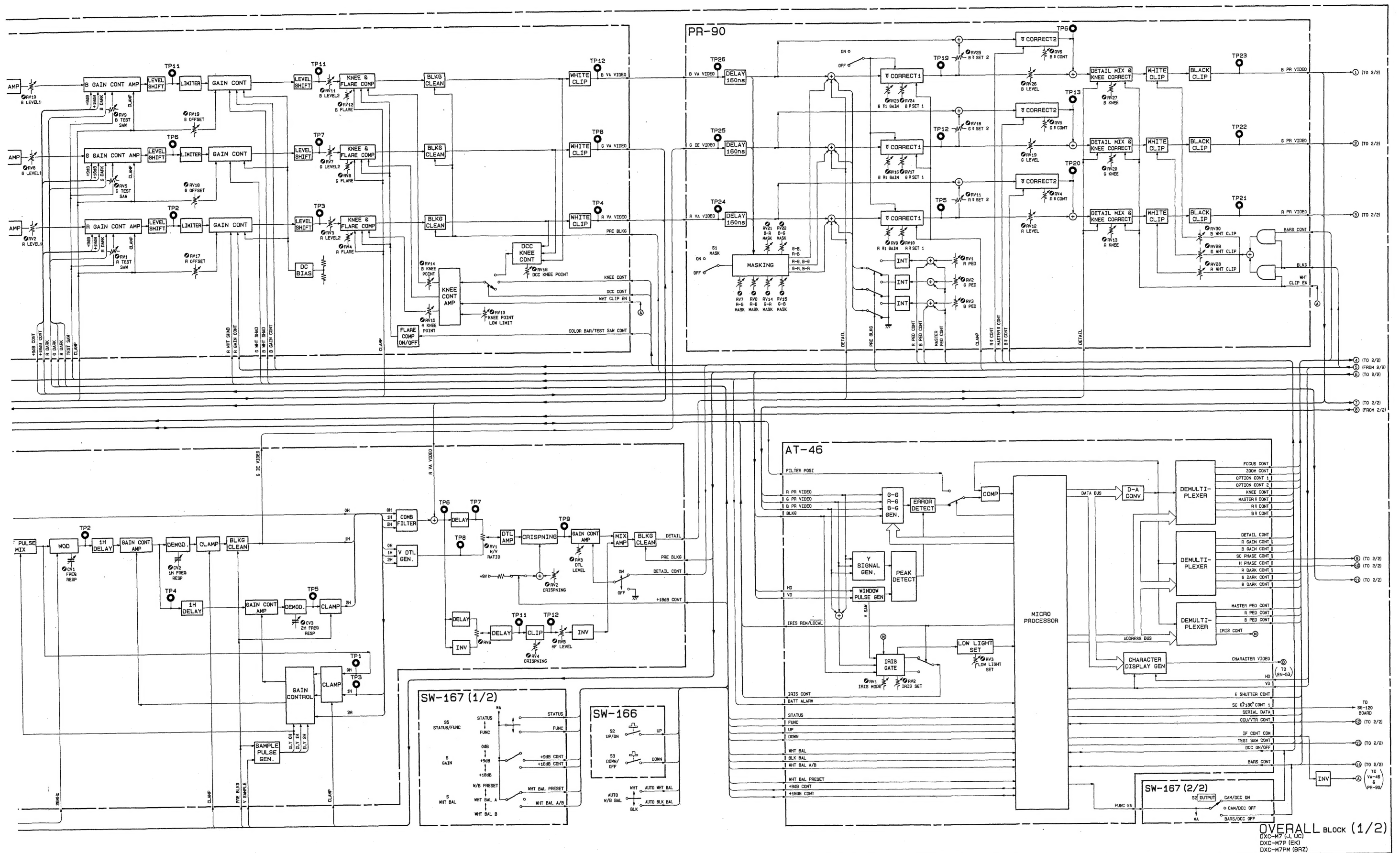
OVERALL (1/2)

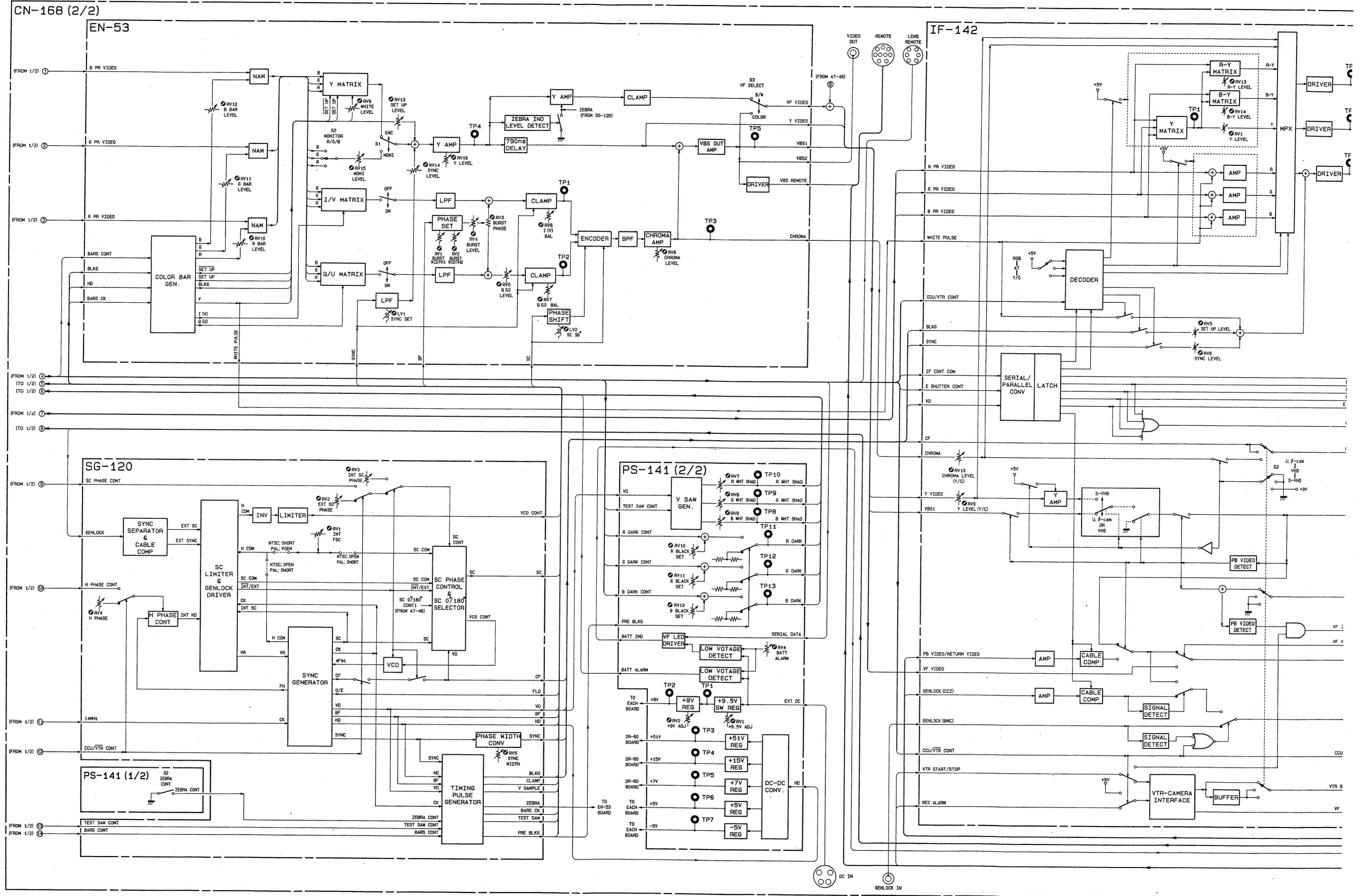


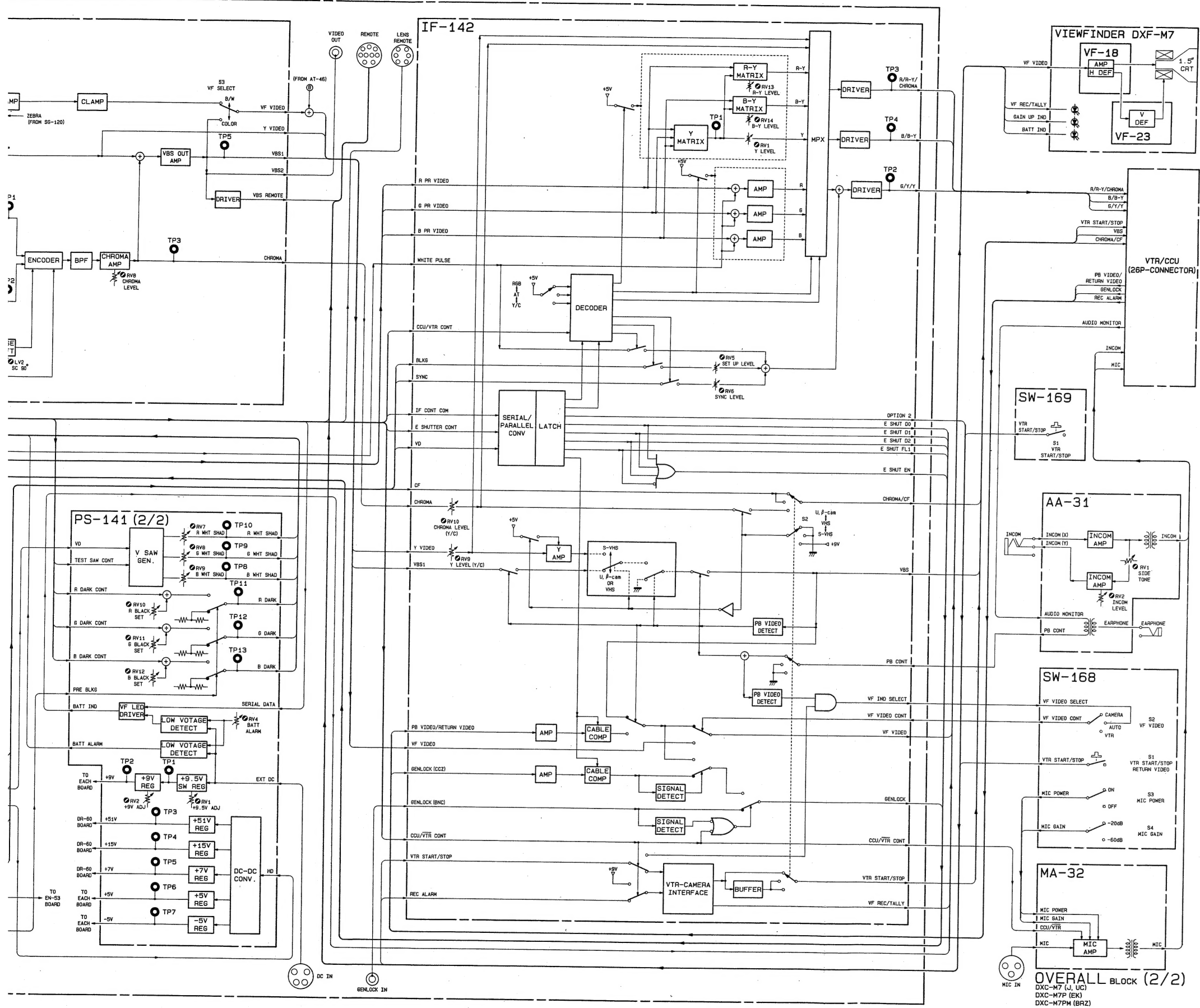
4-4 (b)



4-4 (a)

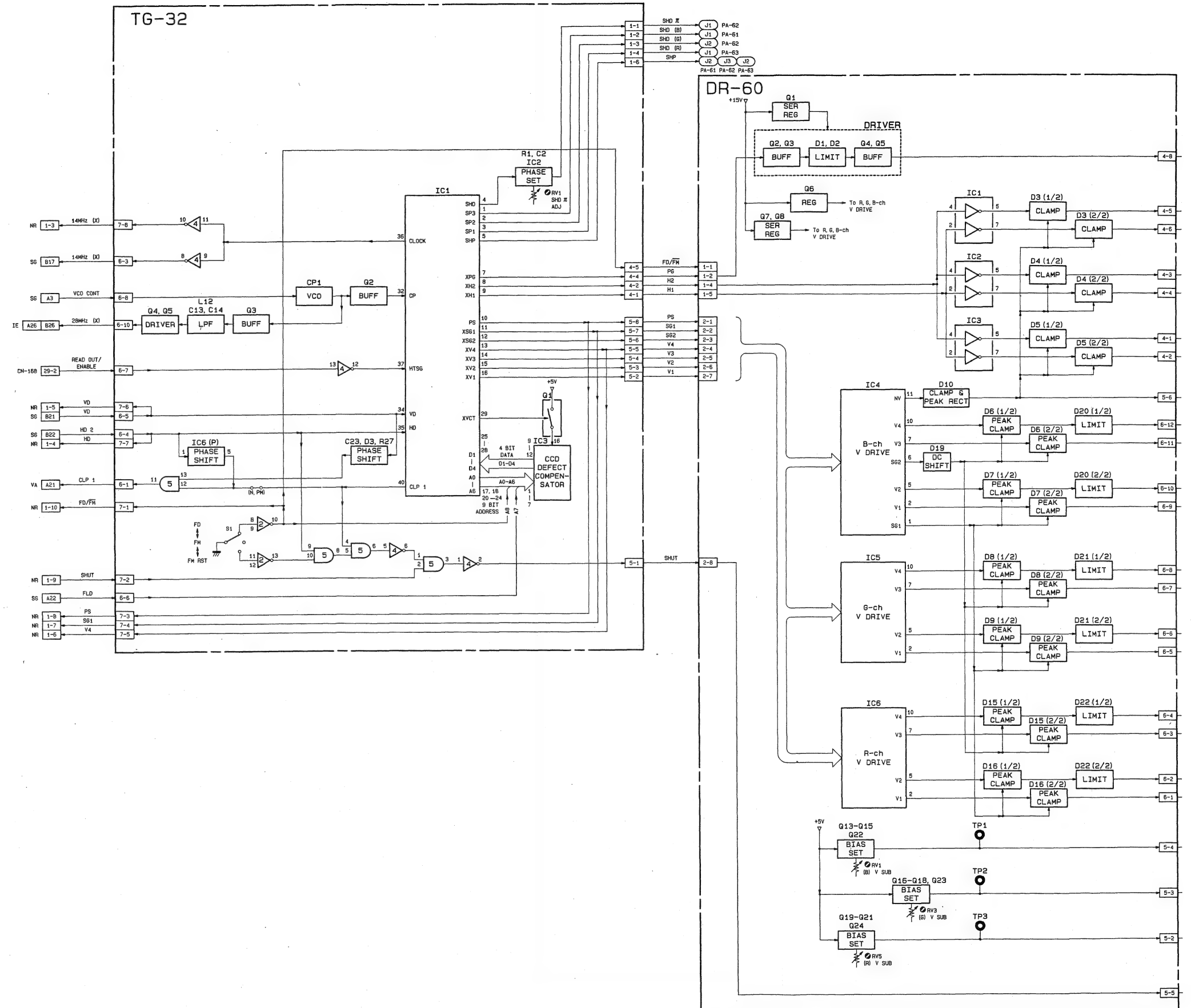


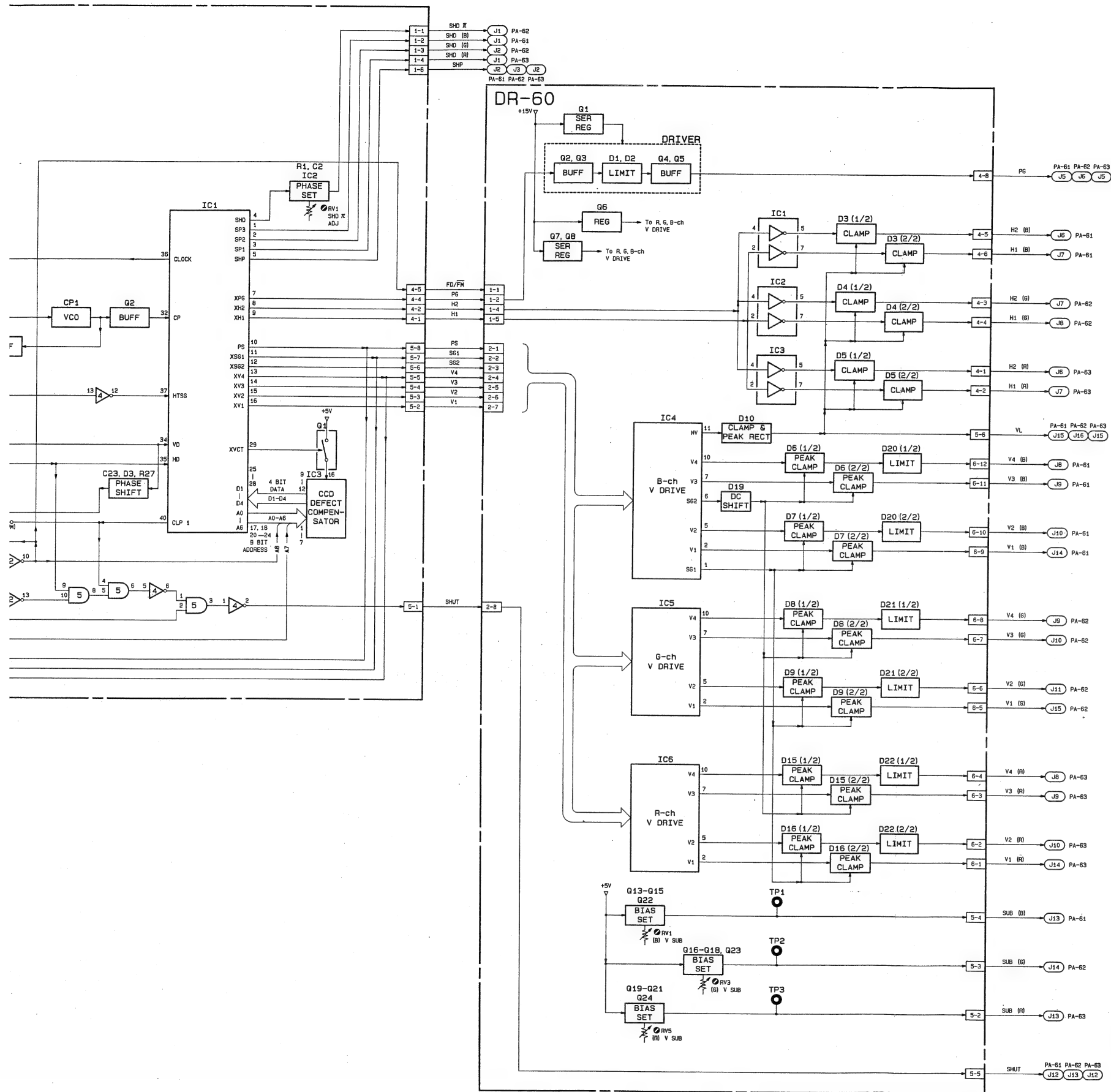




TG-32 BLOCK (TIMING PULSE GENERATOR)
DR-60 BLOCK (TIMING PULSE DRIVER)

Ser.No.10001-13260 (UC)
30001-31420 (J)
40001-44060 (EK)
70001-70050 (BRZ)





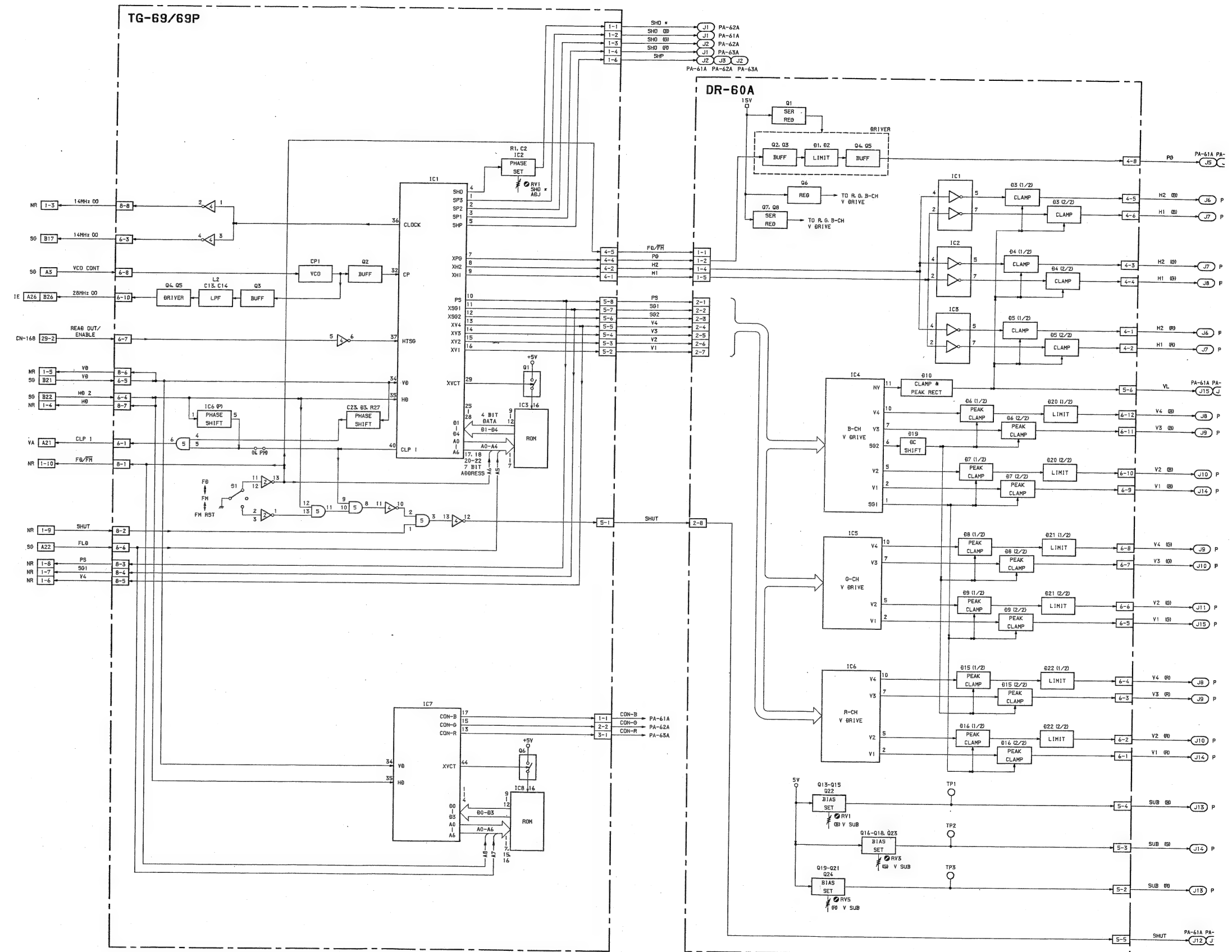
4-11 (a)

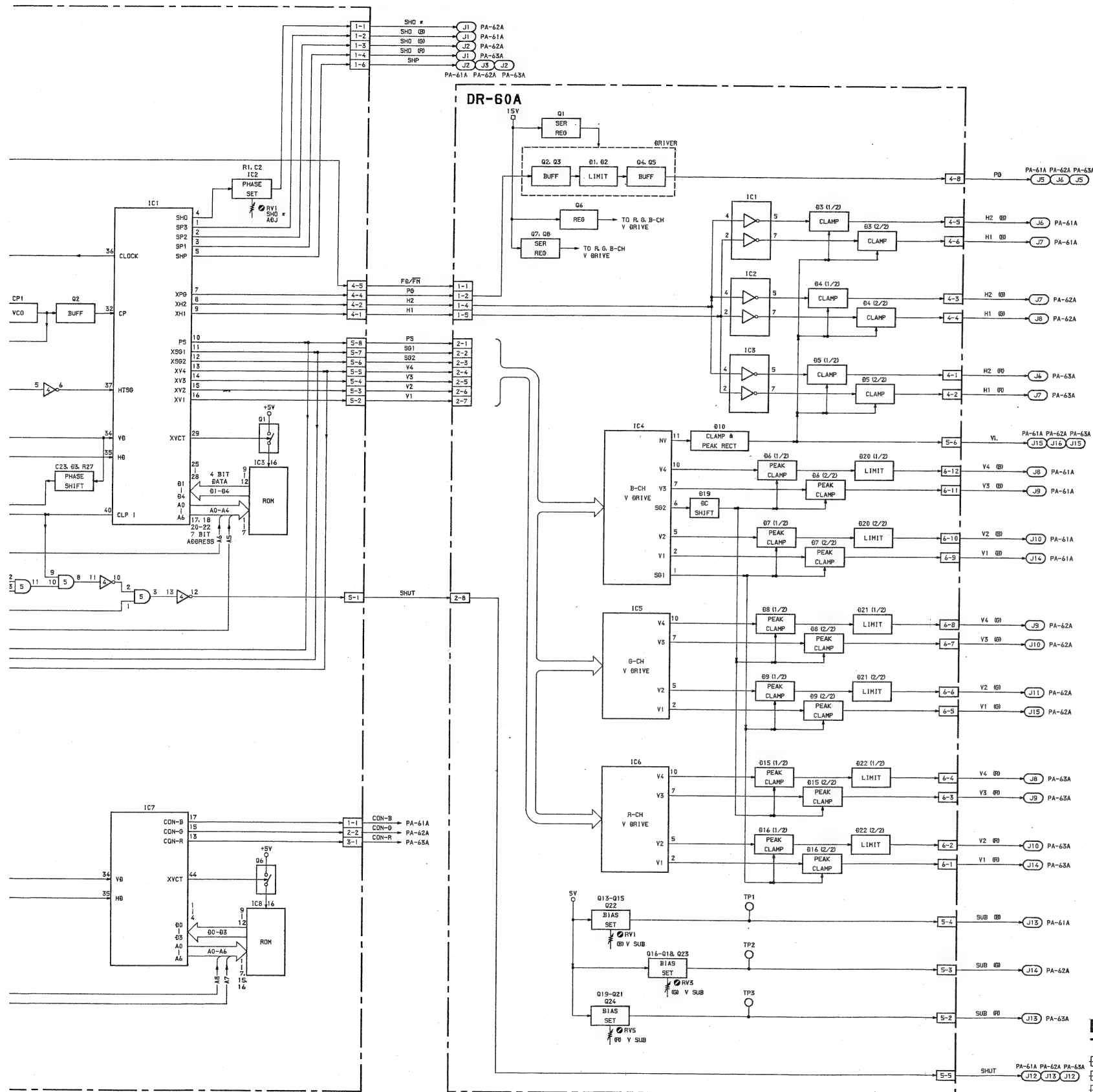
4-12 (a)

DXC-M7 (J) (UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

TG-69/69P BLOCK (TIMING PULSE GENERATOR)
DR-60A BLOCK (TIMING PULSE DRIVER)

Ser.No.13261- (UC)
31421- (J)
44061- (EK)





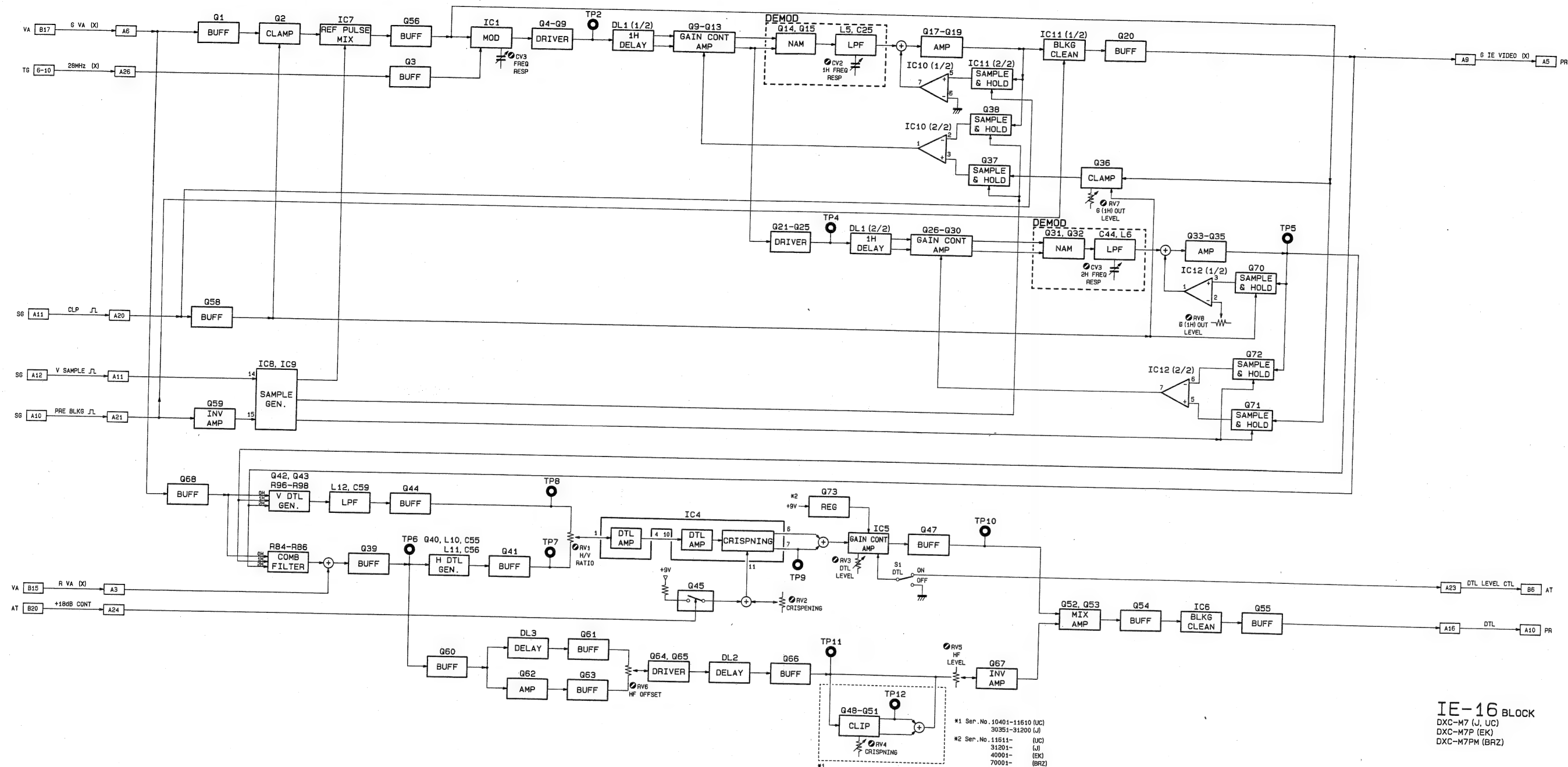
4-11 (b)

4-12 (b)

DXC-M7 (J) (UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

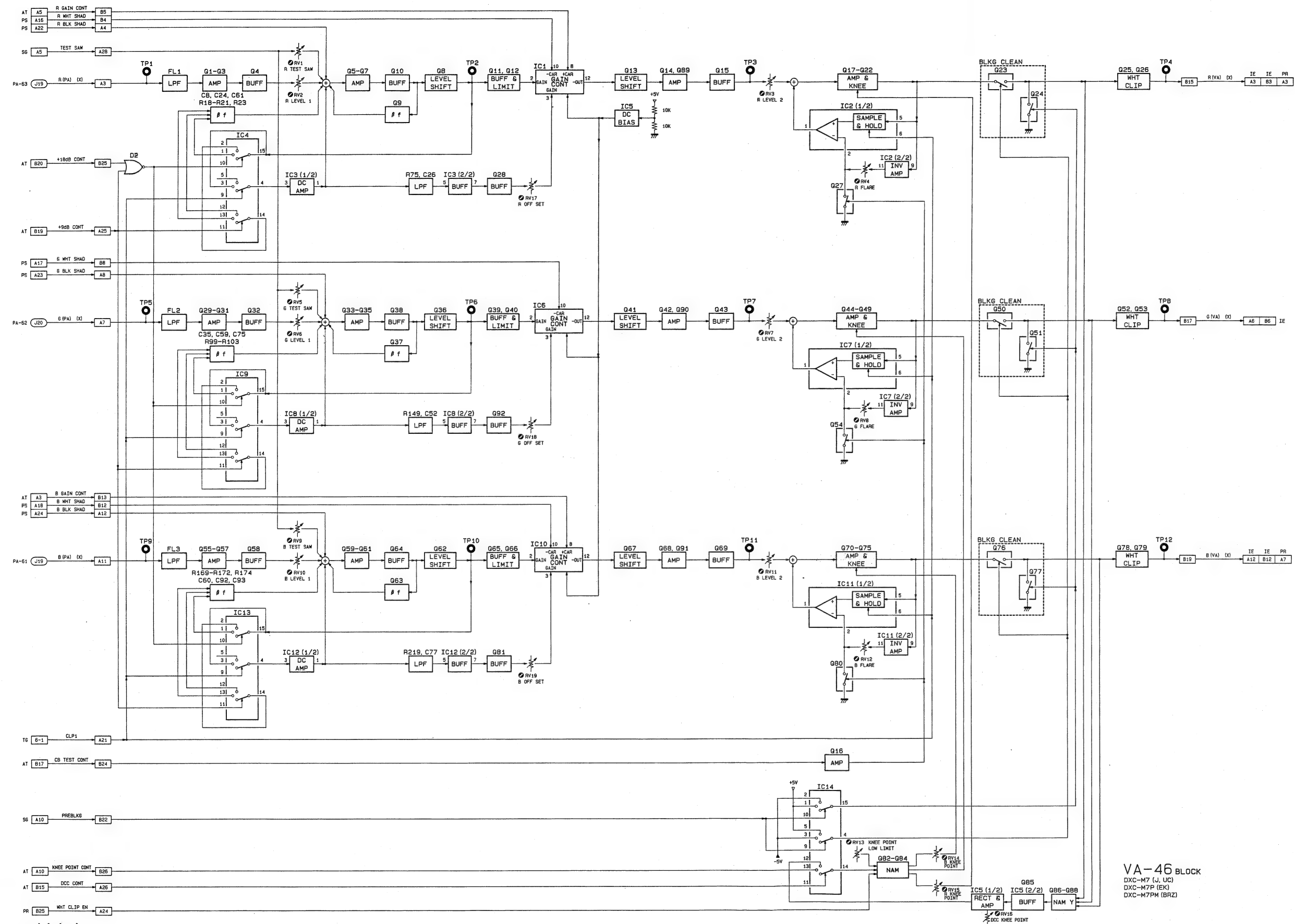
IE-16 BLOCK (IMAGE ENHANCER)

Ser.No.10401- (UC)
30351- (J)
40001- (EK)
70001- (BRZ)



IE-16 BLOCK
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

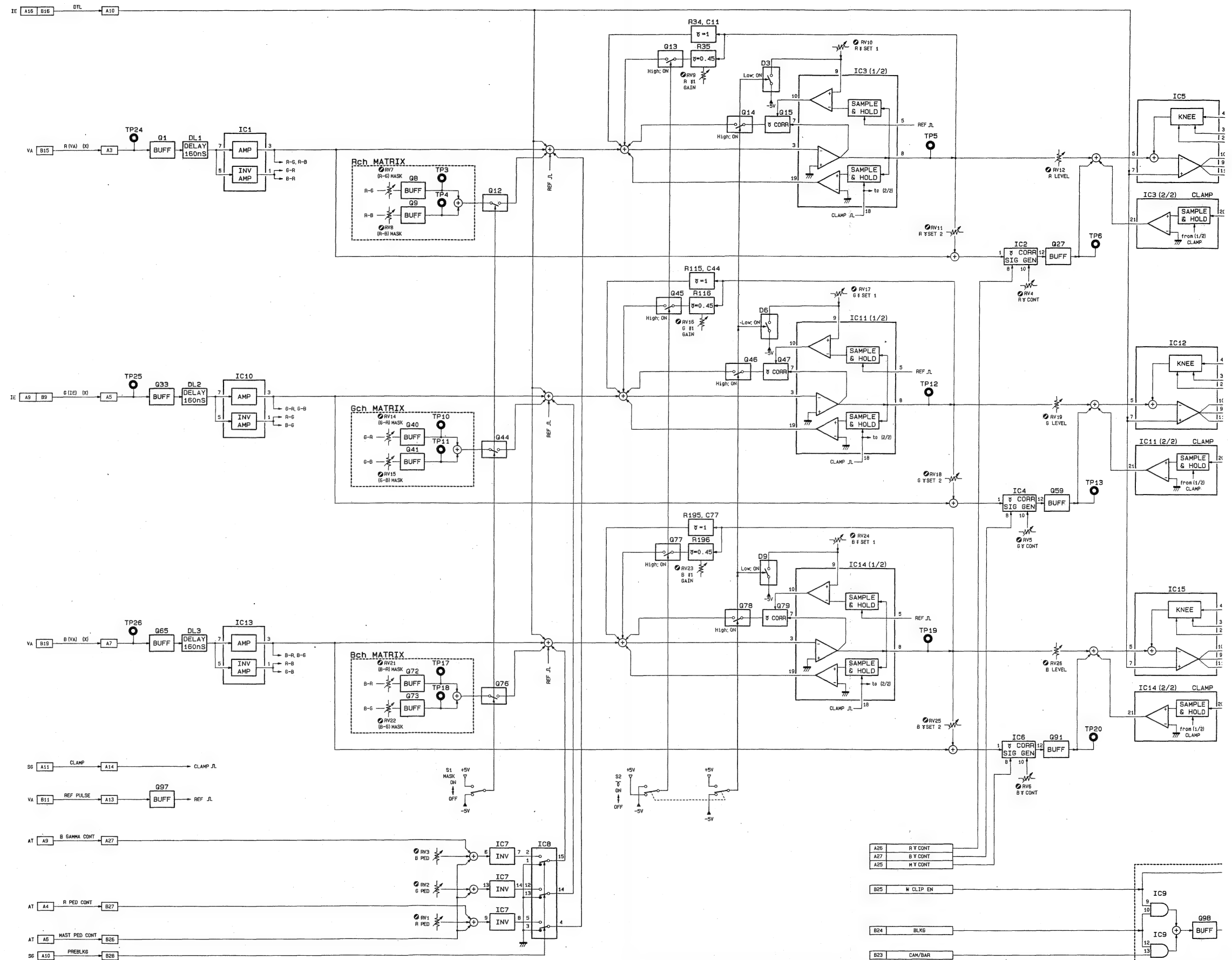
VA-46 BLOCK (VIDEO AMPLIFIER)



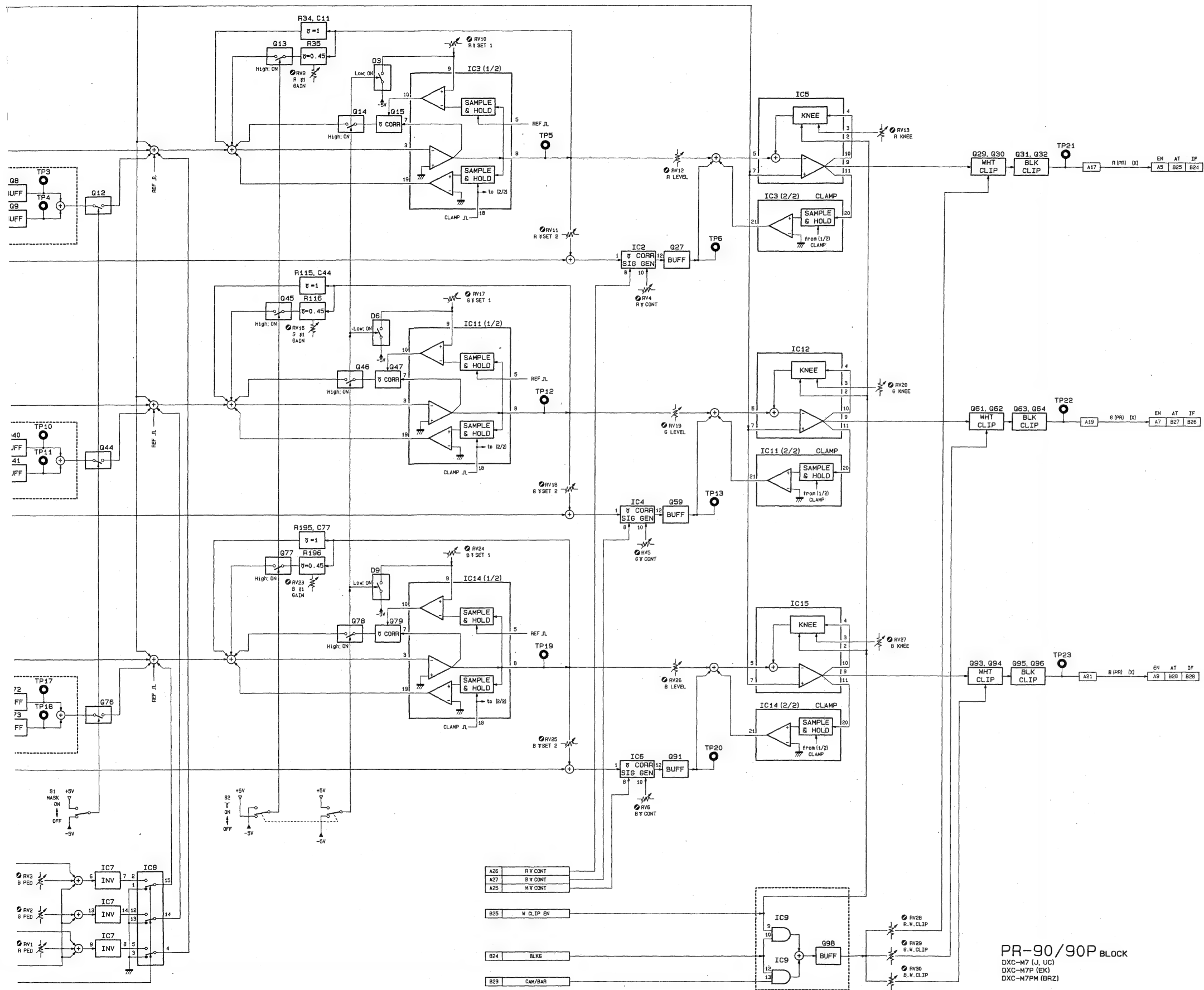
VA-46 BLOCK
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

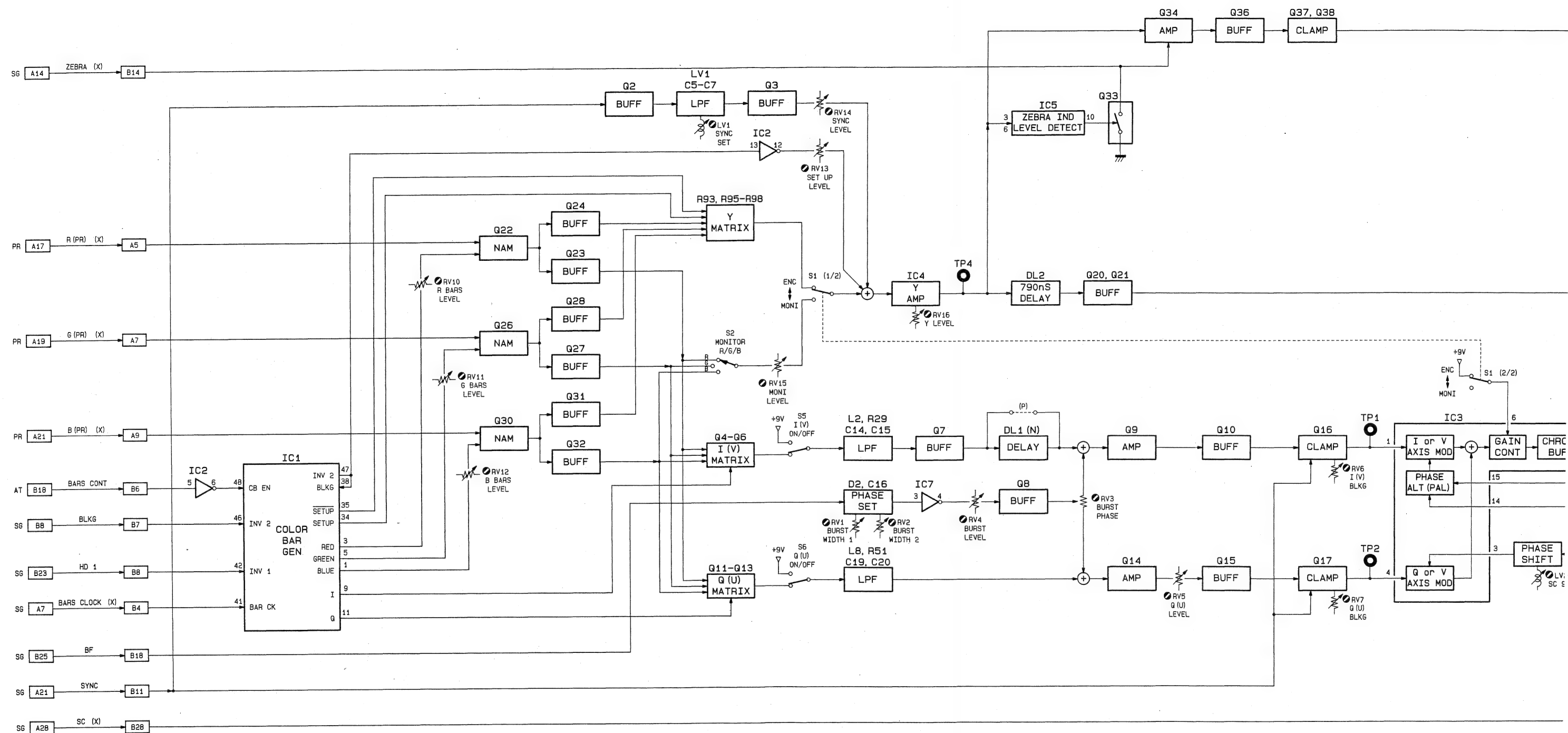
PR-90/90P BLOCK (PROCESS)

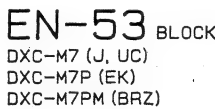


DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BR2)

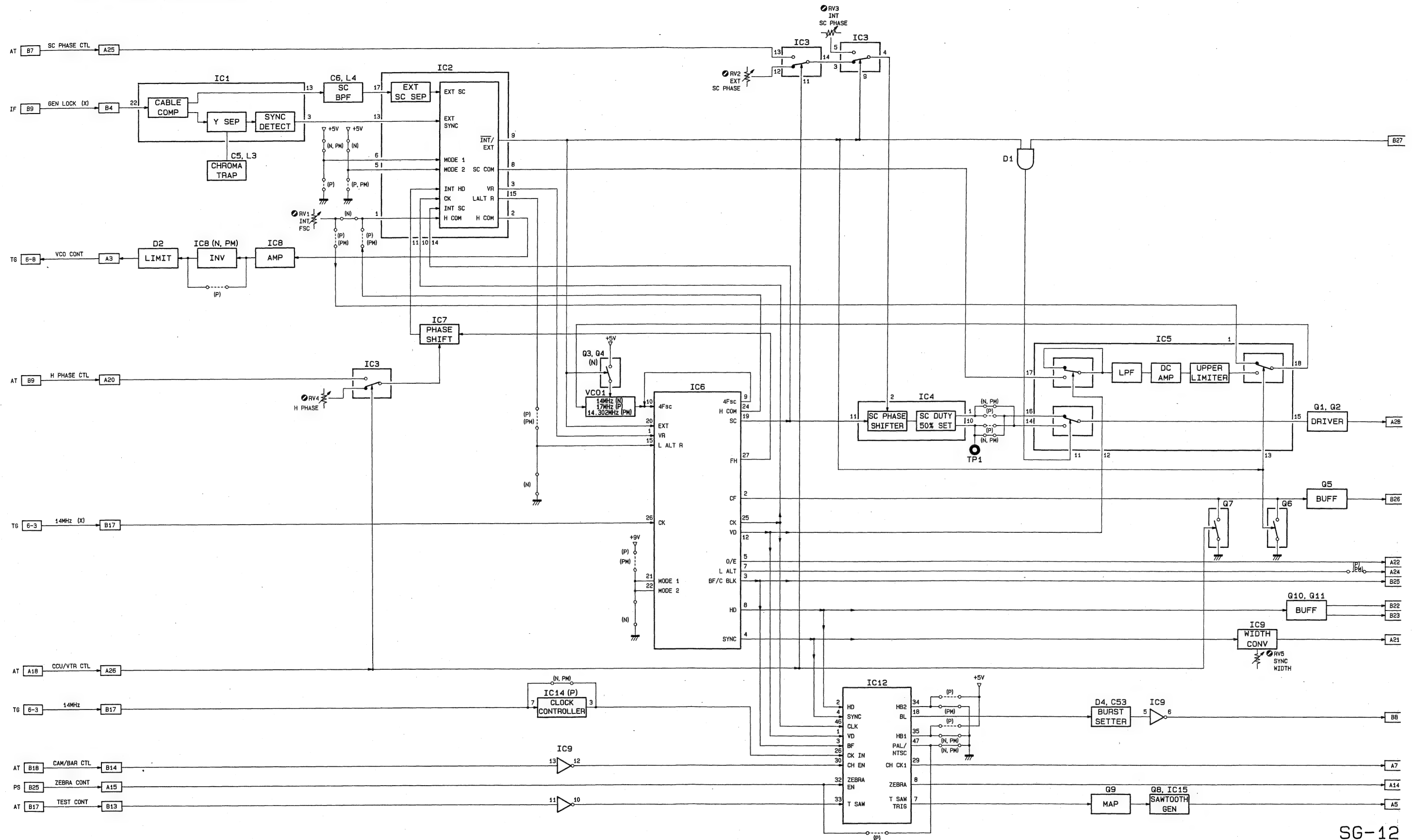


EN-53 BLOCK (ENCODER)





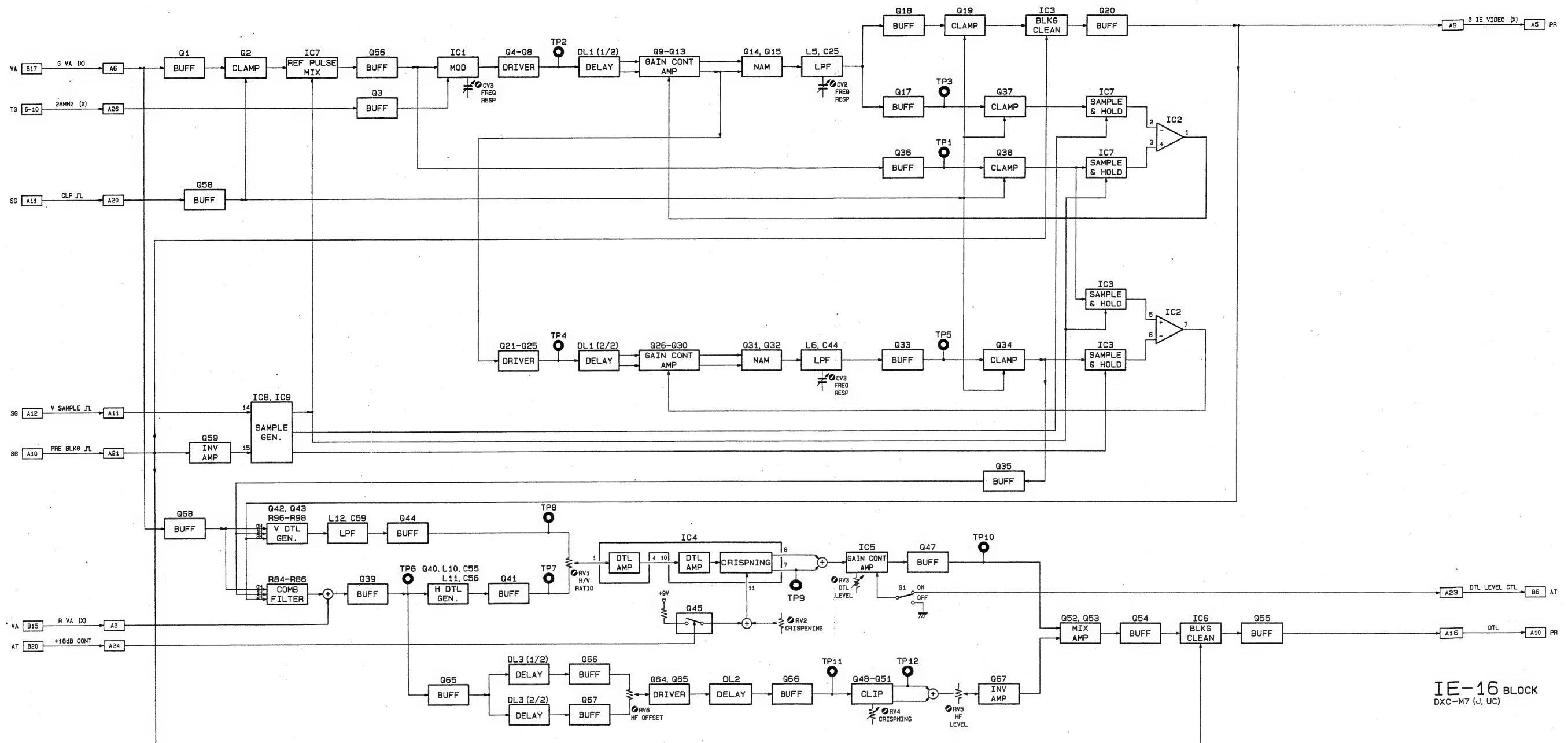
SG-120 BLOCK (SYNC GENERATOR)



SG-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

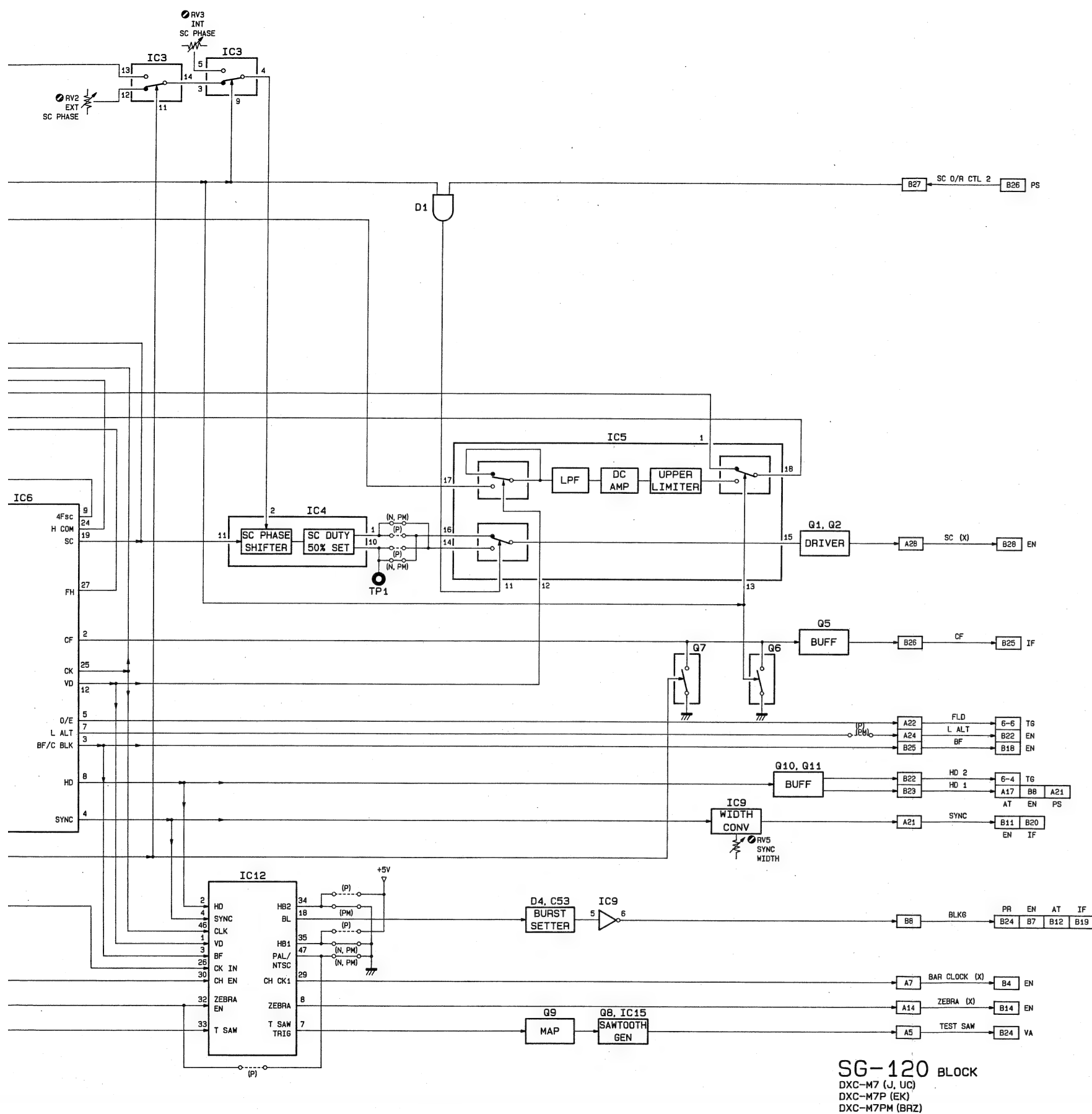
IE-16 BLOCK (IMAGE ENHANCER)

Ser.No.10001-10400 (UC)
30001-30350 (J)

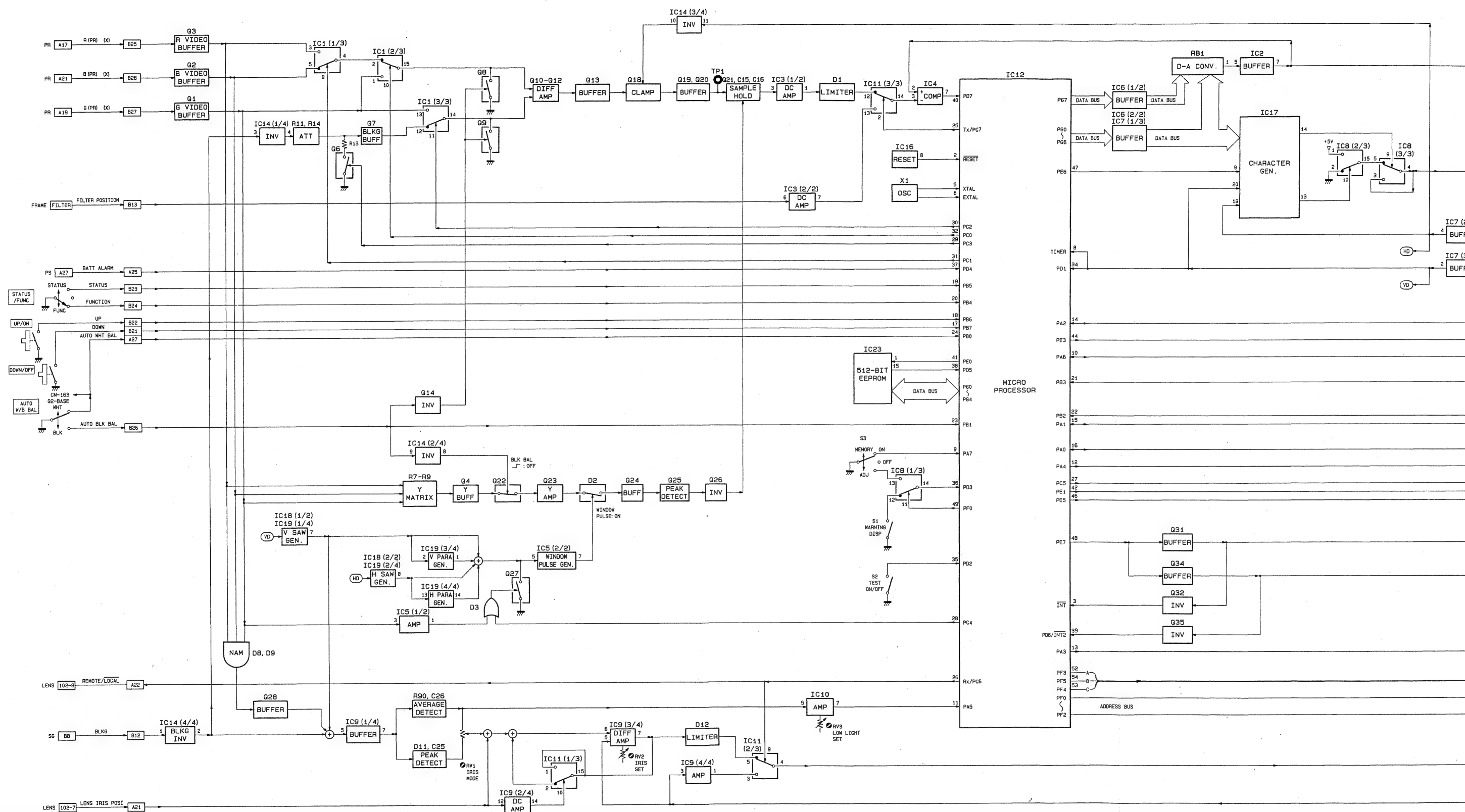


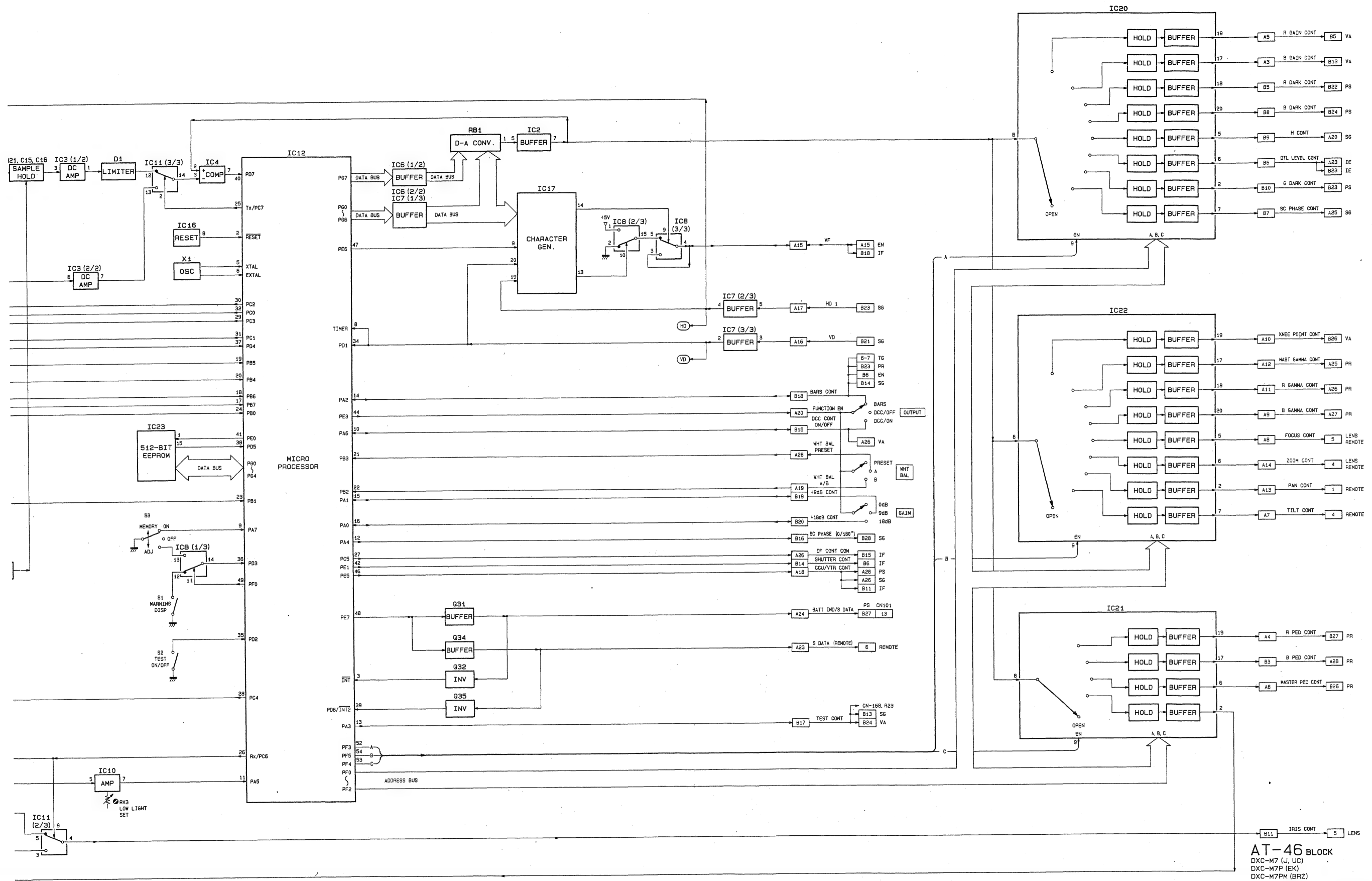
IE-16 BLOCK
DXC-M7 (J, UC)

DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

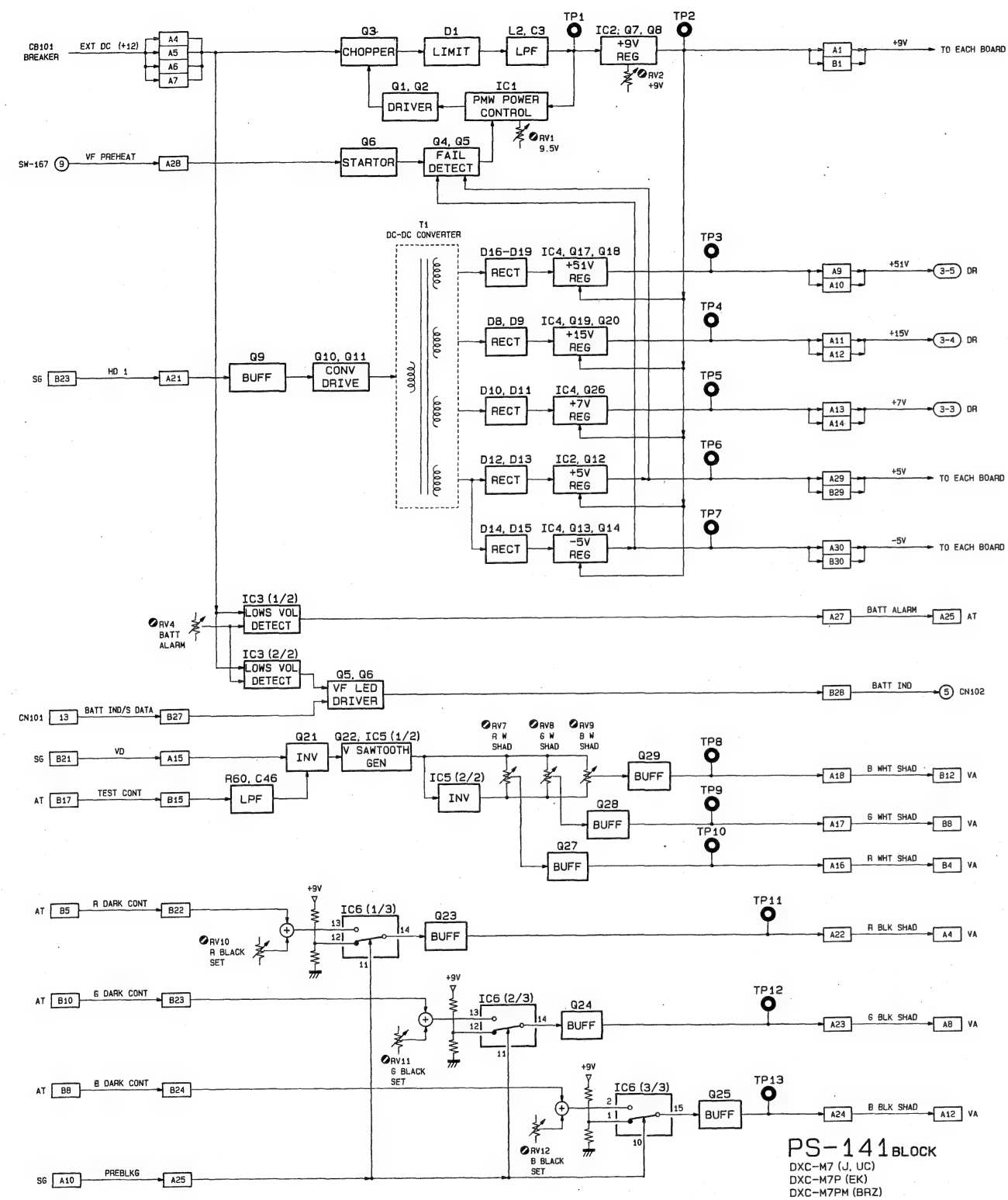


AT-46 BLOCK (AUTO CONTROL)





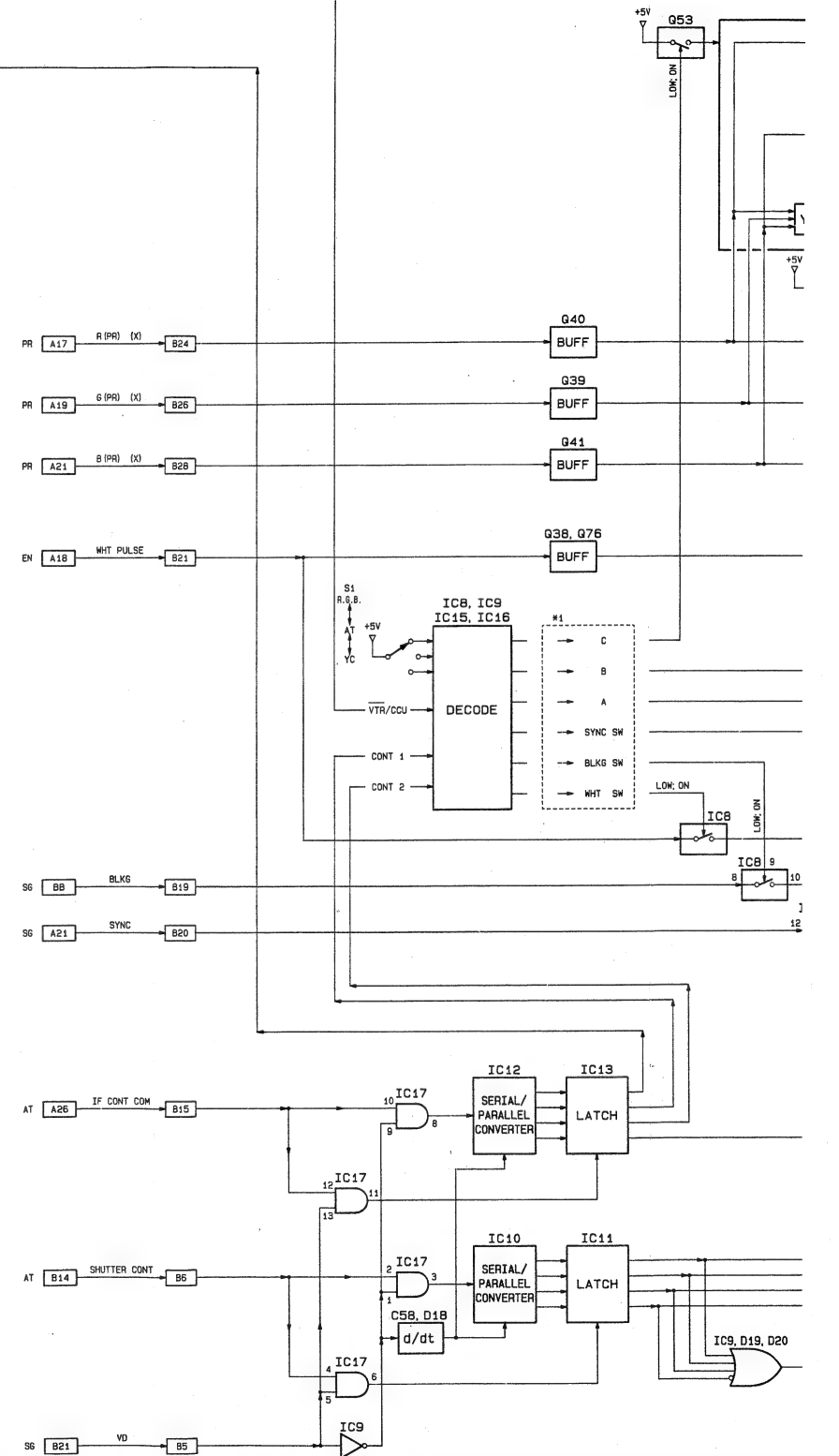
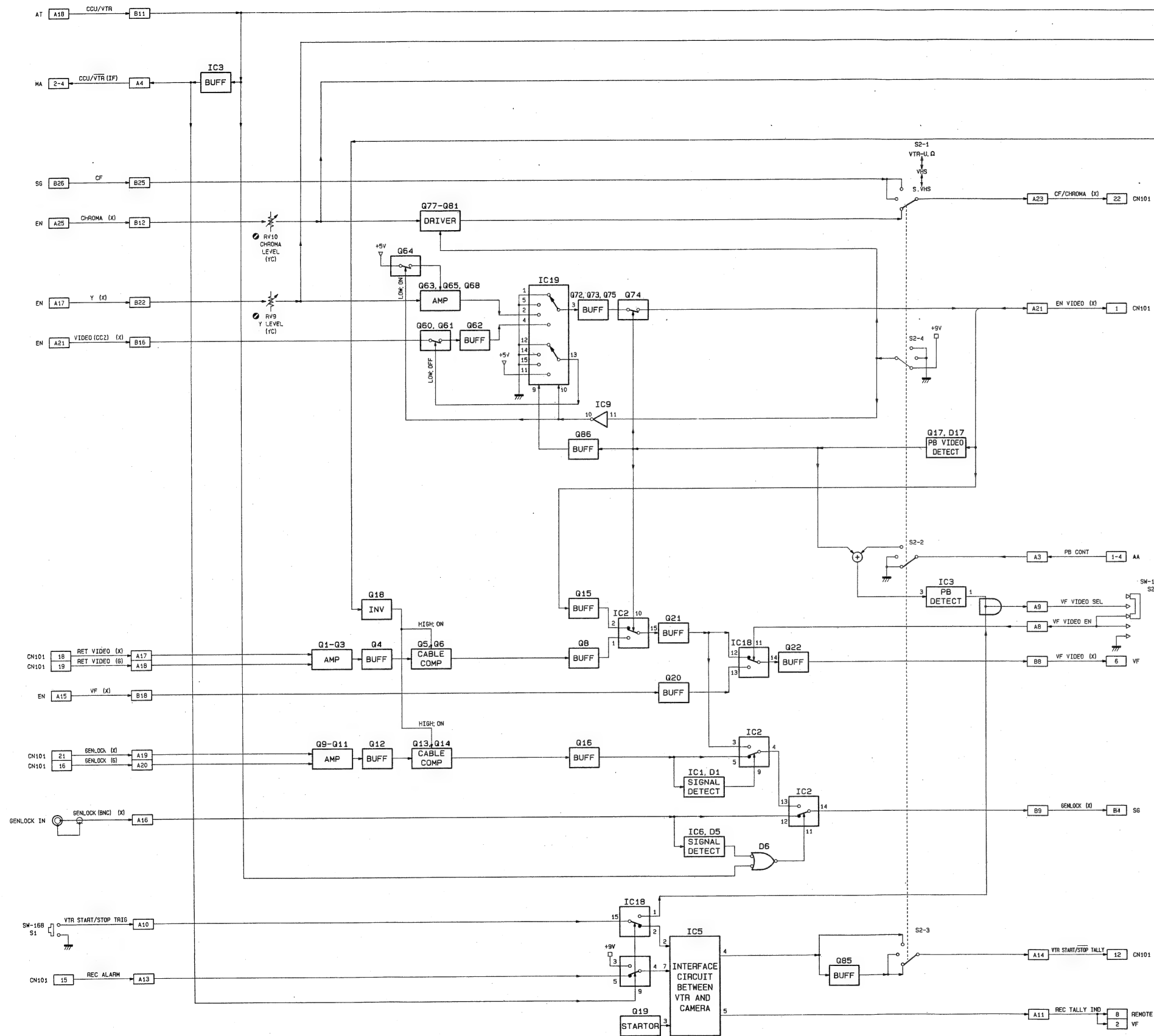
PS-141 BLOCK (POWER SUPPLY)

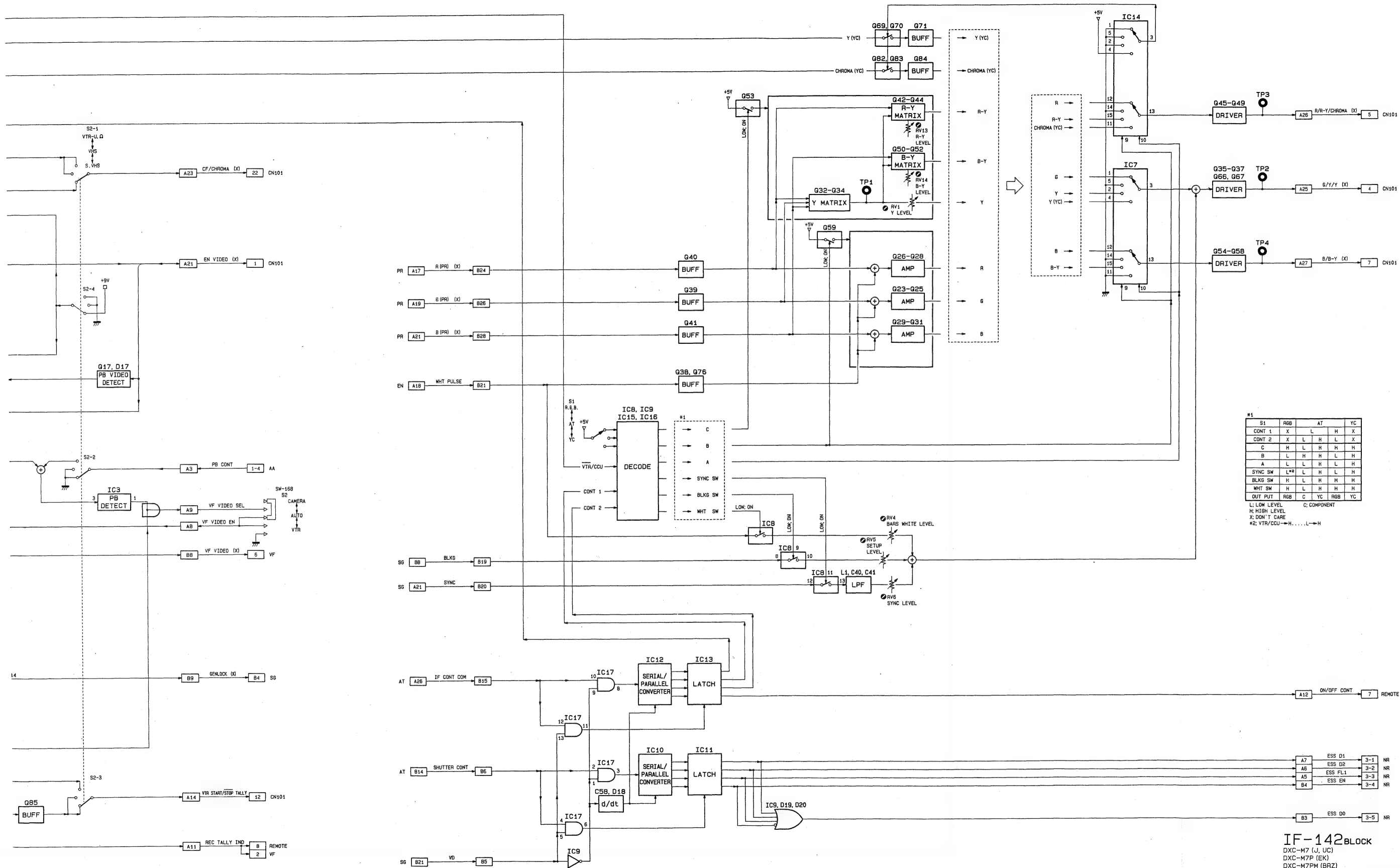


PS-141 BLOCK
 DXC-M7 (J) (UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

DXC-M7 (J) (UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

IF-142 BLOCK (INTERFACE)





#1

S1	RGB	AT	YC
CONT 1	X	L	H
CONT 2	X	L	H
C	H	L	H
B	L	H	L
A	L	H	L
SYNC SW	L	H	L
BLKG SW	H	L	H
WHT SW	H	L	H
OUT PUT	RGB	C	YC

L: LOW LEVEL
H: HIGH LEVEL
X: DON'T CARE
#2: VTR/CCU → H...L → H

IF-142 BLOCK
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

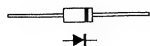
SECTION 5

SEMICONDUCTOR

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE	PAGE	TYPE	PAGE	TYPE	PAGE
1S1555.....	5-2	CX22017.....	5-3	TC40H004F.....	5-16
1S2835.....	5-2	CX518.....	5-4	TC40H008F.....	5-16
1S2837.....	5-2	CX7930A.....	5-4	TC4017BF.....	5-15
		CX7968A.....	5-4	TC4029BF.....	5-15
1SS123.....	5-2	CX7969.....	5-5	TC4050BF.....	5-15
		CX815.....	5-6	TC4052BFHB.....	5-15
1Z ? ?.....	5-2			TC4053BFHB.....	5-16
2SA1226.....	5-2	CXA1065M.....	5-6	TC4069UBF.....	5-16
2SA1462.....	5-2			TC407IBF.....	5-16
2SA812.....	5-2	CXB0026AM.....	5-12	TC408IBF.....	5-16
2SA844.....	5-2			TC4538BF.....	5-16
		CXD1035BQ-Z.....	5-7	TC74HC02F.....	5-16
2SB733.....	5-2	CXD8095Q.....	5-12(a)	TC7S08F.....	5-17
2SB815.....	5-2				
		CXK1005P.....	5-12	TC74HC04F.....	5-17
2SC1009A.....	5-2			TC74HC08F.....	5-17
2SC1623.....	5-2	ERA81-005.....	5-2	TC74HC574F.....	5-17
2SC2668.....	5-2	ERB81-004.....	5-2		
2SC2757.....	5-2	ERB84-009.....	5-2	TL062ACPS.....	5-17
2SC2785.....	5-2			TL064CNS.....	5-17
2SC2878.....	5-2	HD14042BFP.....	5-12	TL072CPS.....	5-17
		HD63P05Y0.....	5-12	TL082CPS.....	5-17
2SD1048.....	5-2			TL494CNS.....	5-17
2SD773.....	5-2	HN27C64G-20.....	5-13	TL7700CPS.....	5-18
2SD774.....	5-2				
		MB7053.....	5-14	uA711CNS.....	5-18
2SJ122.....	5-2				
		MC74HC4053F.....	5-14	uPC311G2.....	5-18
2SK160.....	5-2			uPC3423C.....	5-18
2SK94.....	5-2	MN1237AD.....	5-14	uPC4558G2.....	5-18
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BU4052BF.....	5-3	NJM2903M.....	5-15		
		NJM4560M.....	5-15		
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BX1337.....	5-3	RD ? ?MB?.....	5-2		
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		SN74HC02NS.....	5-16		
		SN74HC04ANS.....	5-17		
		SN74HC04NS.....	5-17		
		SN74HC08NS.....	5-17		
		SN74LS221NS.....	5-15		

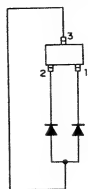
DIODE, TRANSISTOR



1S1555
ERB84-009

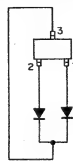
TOP VIEW (SCALE 4/1)

1S2835



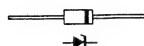
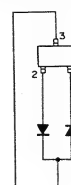
TOP VIEW (SCALE 4/1)

1S2837

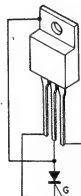


TOP VIEW (SCALE 4/1)

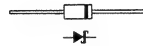
1S5123



1Z??
RD??EL?



5P6M



ERA81-005
ERB81-004

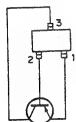
TOP VIEW (SCALE 4/1)

RD??MB?

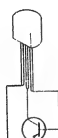


TOP VIEW (SCALE 4/1)

2SA1226
2SA1462
2SA812
2SB815



2SA844

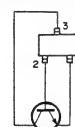


2SB733



TOP VIEW (SCALE 4/1)

2SC1009A
2SC1623
2SC2757
2SD1048
NTM2369



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PRINTED

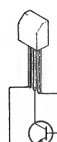
2SC2785



2SC2878

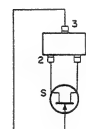


2SD773
2SD774



TOP VIEW (SCALE 4/1)

2SK160
2SK94



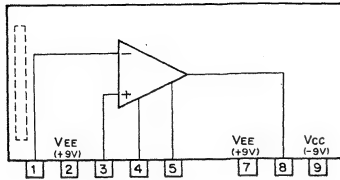
2SJ122



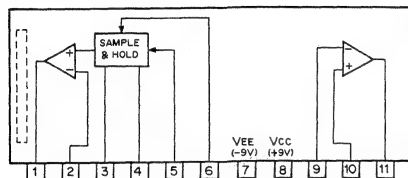
2SC2668



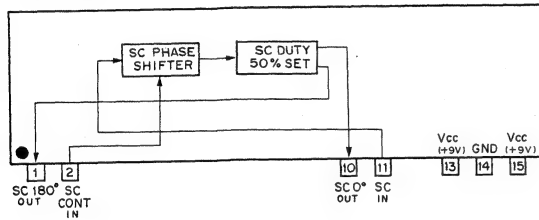
BX1055 (SONY)
VIDEO AMPLIFIER
— REAR VIEW —



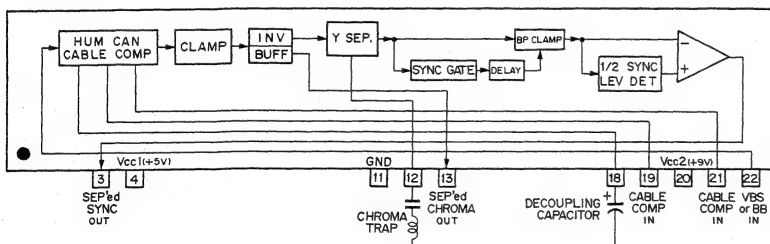
BX1082 (SONY)
OPERATIONAL AMPLIFIER
— REAR VIEW —



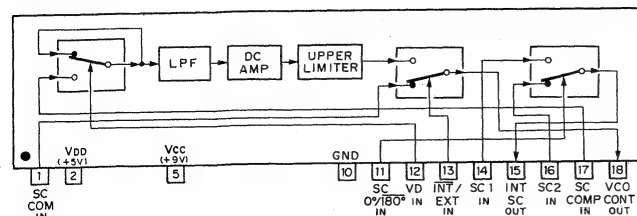
BX1292A (SONY)
SC PHASE SHIFTER
— REAR VIEW —



BX1337 (SONY)
SYNC SEPARATOR
— REAR VIEW —

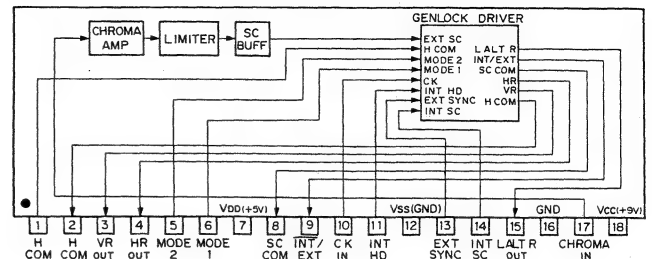


BX1338 (SONY)
APC AMPLIFIER AND SC 0°/180° SELECTOR
— REAR VIEW —



DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

BX1340 (SONY)
SC LIMITER AND GENLOCK DRIVER
— REAR VIEW —

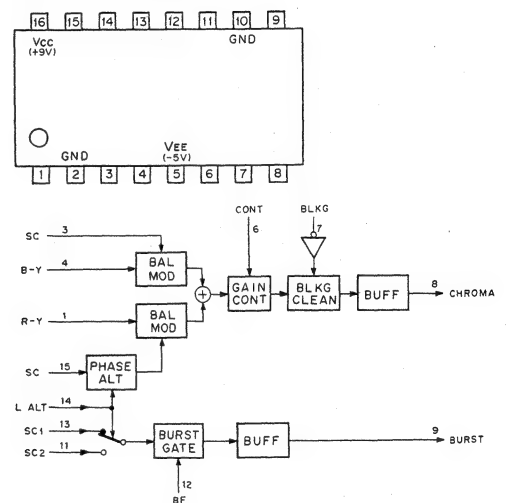


MODE SELECTION

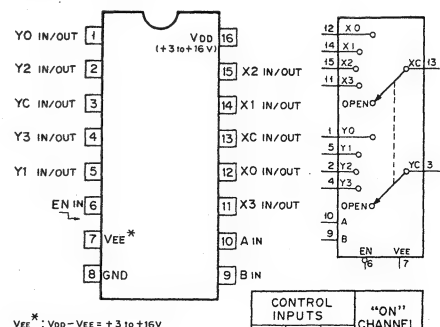
MODE 1	MODE 2	MODE
1	1	NTSC
0	0	PAL

0: LOW LEVEL
1: HIGH LEVEL

CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
— TOP VIEW —



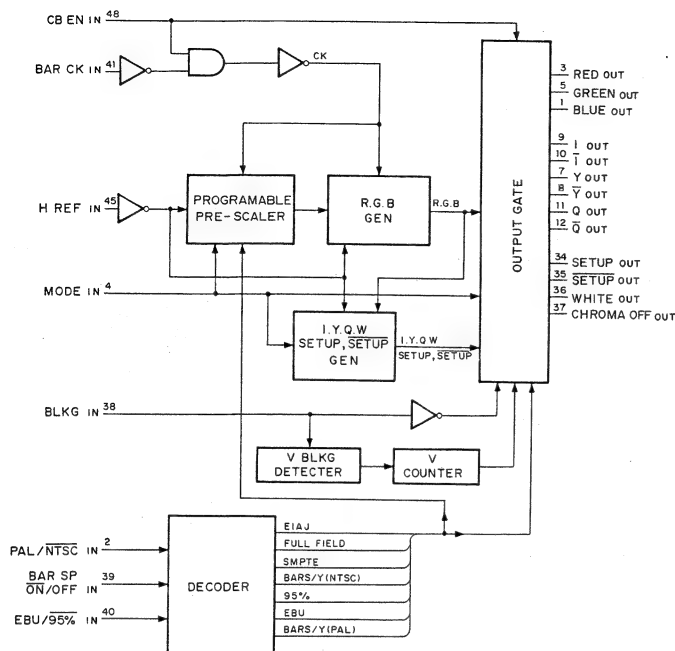
BU4052BF (ROHM) FLAT PACKAGE
C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



VEE*: VDD - VEE = +3.0 to +16V

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE.

CONTROL INPUTS	EN	B	A	"ON" CHANNEL
0	0	0	0	0
0	0	1	0	1
0	1	0	0	2
0	1	1	0	3
1	X	X	X	OPEN



1. SYSTEM DESIGNATION

INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE

INPUT	FUNCTION
MF/MM IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

3. V BLKG WIDTH (NTSC ONLY)

INPUT	V BL 19	V BL 20	V BLKG WIDTH
1	X		19H
0	1		20H
0	0		21H

4. H BLKG WIDTH

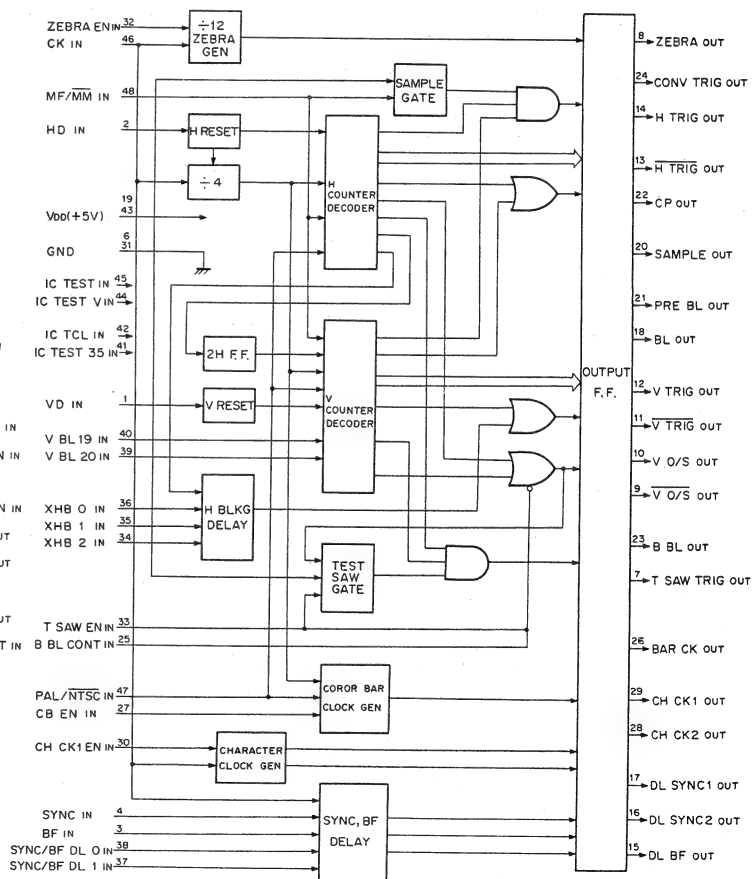
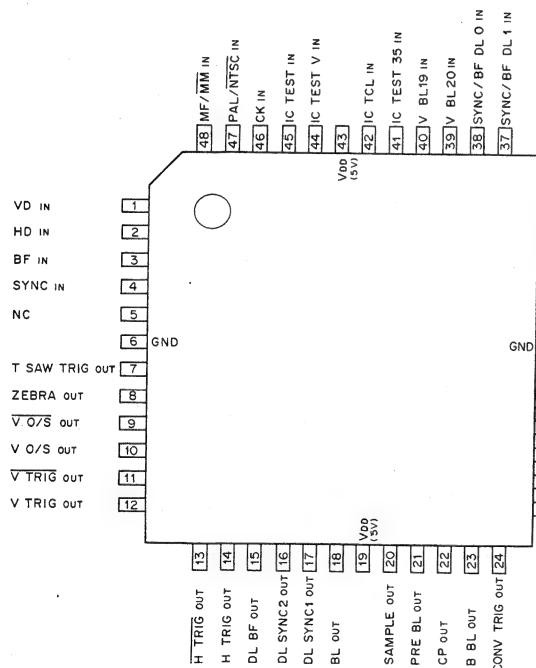
INPUT	XHB2	XHB1	XHB0	NTSC	PAL
1	1	1		10.27	11.49
1	1	0		10.34	11.56
1	0	1		10.41	11.63
1	0	0		10.48	11.70
0	1	1		10.55	11.77
0	1	0		10.62	11.84
0	0	1		10.69	11.91
0	0	0		10.76	11.98

5. DELAY TIME

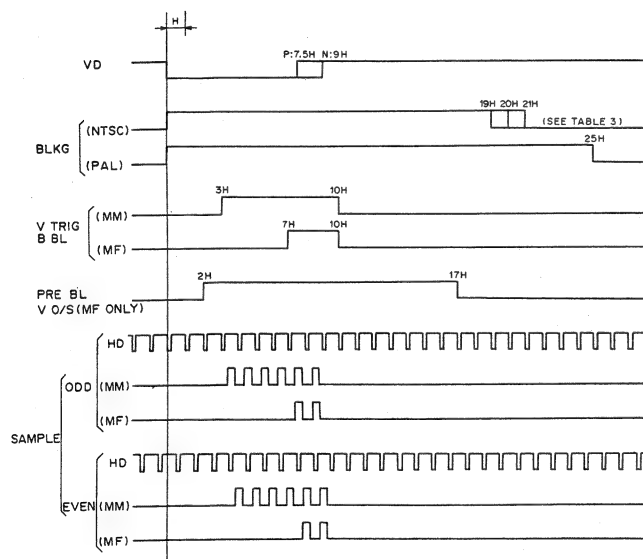
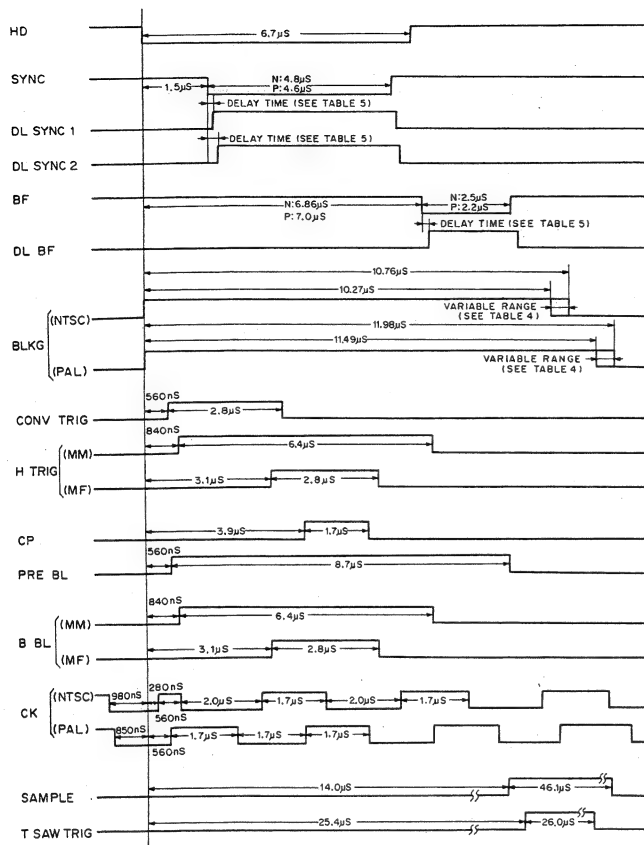
INPUT	DL SYNC 1	DL SYNC 2	DL BF
SYNC/BF DL 1			
1	1	140	210
1	0	210	280
0	1	630	700
0	0	700	770

1: HIGH LEVEL
0: LOW LEVEL
X: DON'T CARE

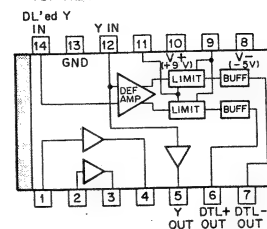
CX7969 (SONY)
C-MOS PULSE GENERATOR
— TOP VIEW —



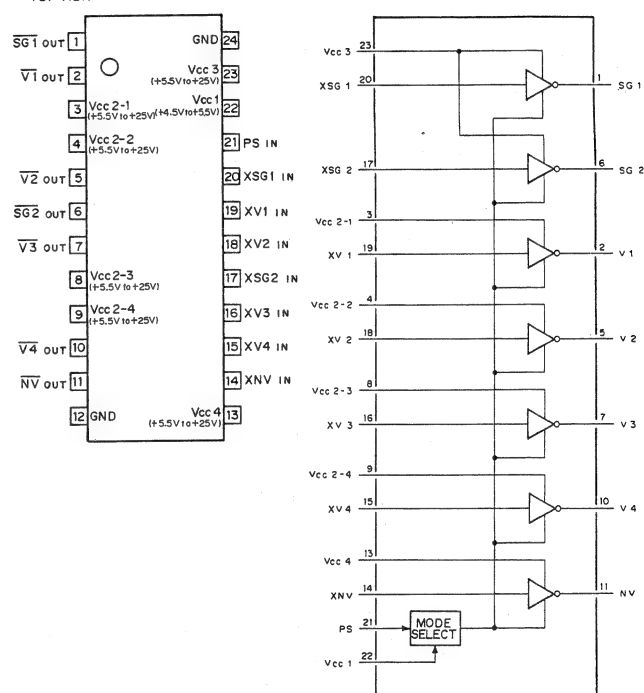
DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



CX815 (SONY)
DTL AMPLIFIER
— TOP VIEW —

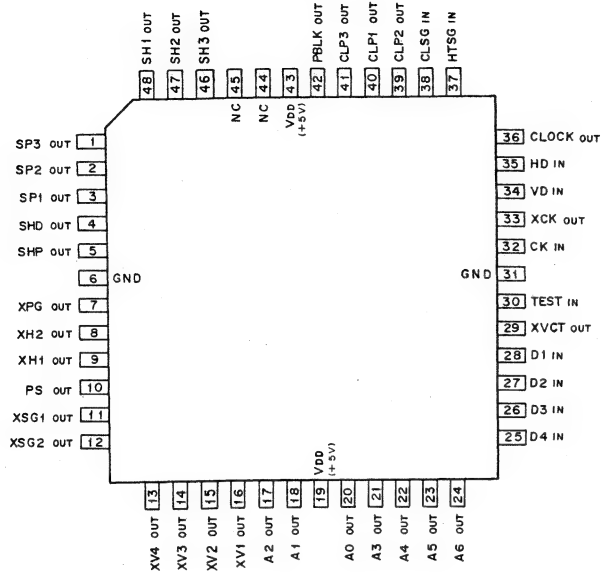


CXA1065M (SONY) FLAT PACKAGE
INVERTING DRIVER FOR CCD CLOCK WITH POWER SAVE
— TOP VIEW —



XV1-XV4; VERTICAL REGISTER TRANSMISSION CLOCK INPUT
V1-V4; VERTICAL REGISTER TRANSMISSION CLOCK OUTPUT
XSG1, XSG2; SENSER GATE PULSE INPUT
SG1, SG2; SENSER GATE PULSE OUTPUT
XNV; DRIVER INPUT
NV; DRIVER OUTPUT
PS; POWER SAVE INPUT
Vcc 1; BIAS VOLTAGE
Vcc 2-1; V1 OUTPUT PULSE VOLTAGE
Vcc 2-2; V2 OUTPUT PULSE VOLTAGE
Vcc 2-3; V3 OUTPUT PULSE VOLTAGE
Vcc 2-4; V4 OUTPUT PULSE VOLTAGE
Vcc 3; SG1, SG2 OUTPUT PULSE VOLTAGE
Vcc 4; NV OUTPUT PULSE VOLTAGE

CXD1035BQ-Z (SONY) FLAT PACKAGE
C-MOS TIMING PULSE GENERATOR FOR CCD CAMERA
— TOP VIEW —

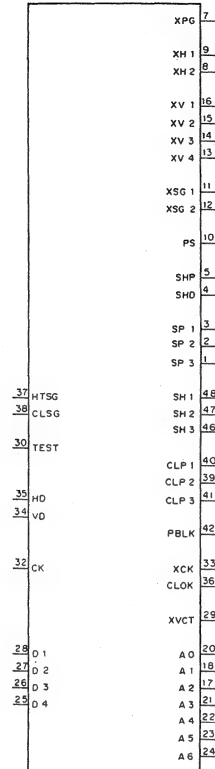


MODE SELECTION WITHOUT ROM

	H	L
D1	*	
D2	1-CHIP COLOR	B/W, 3-CHIP COLOR
D3	FRAME	FIELD
D4	EIA (NTSC, PAL-M)	CCIR (PAL, SECAM)

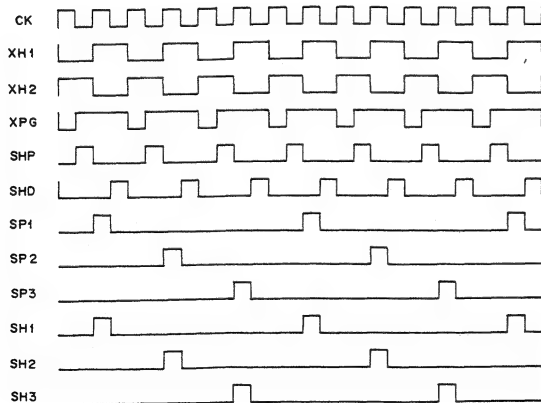
* Connect D1 to GND without ROM (ROM OFF)

H: VDD
L: GND

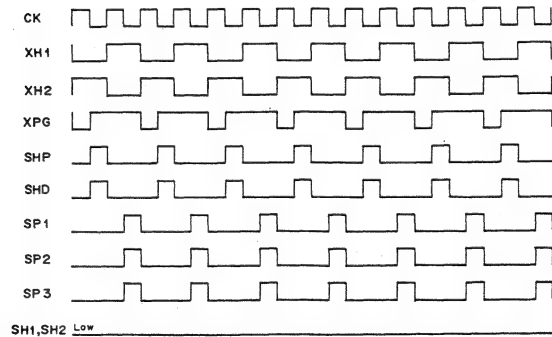


D1~D4: EXTERNAL ROM DATA INPUT
A0~A6: EXTERNAL ROM ADDRESS OUTPUT

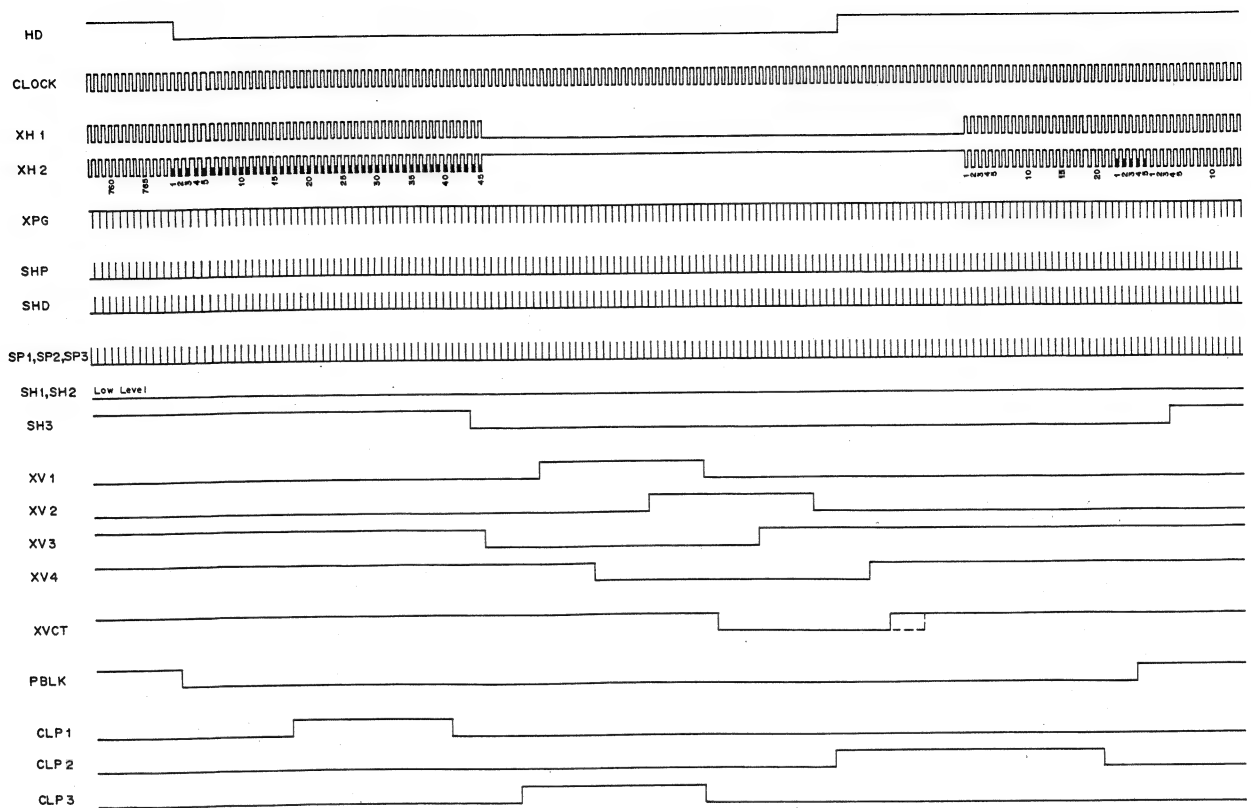
1-CHIP COLOR



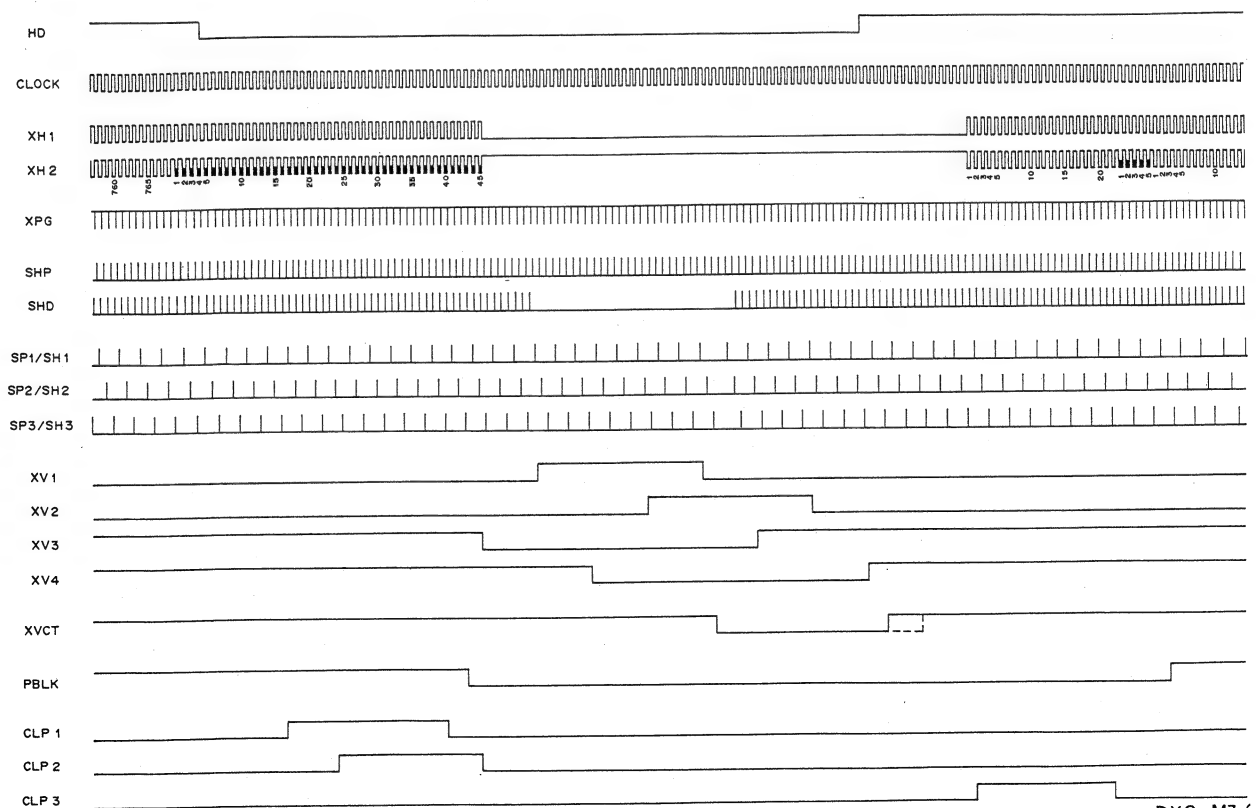
B/W, 3-CHIP COLOR



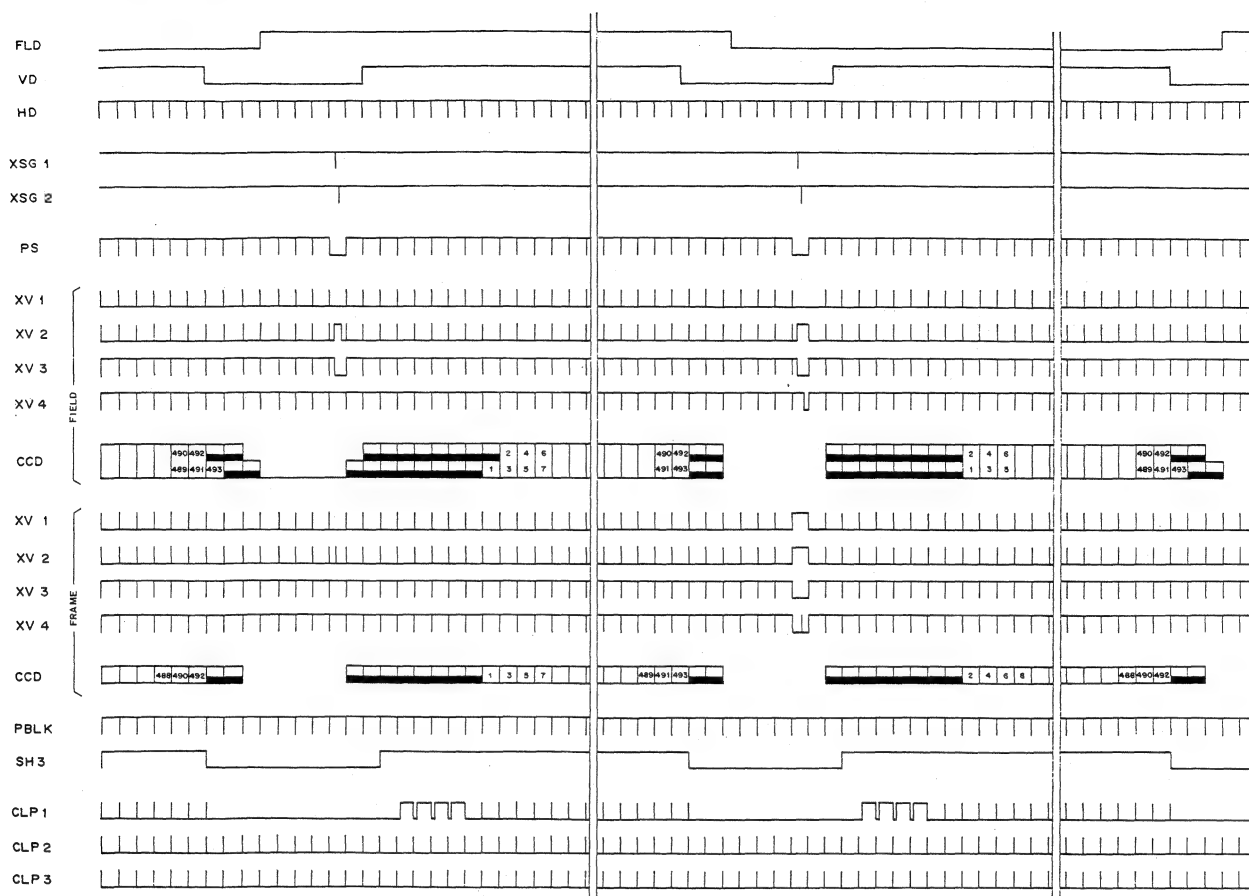
EIA (NTSC, PALM) B/W, 3-CHIP COLOR



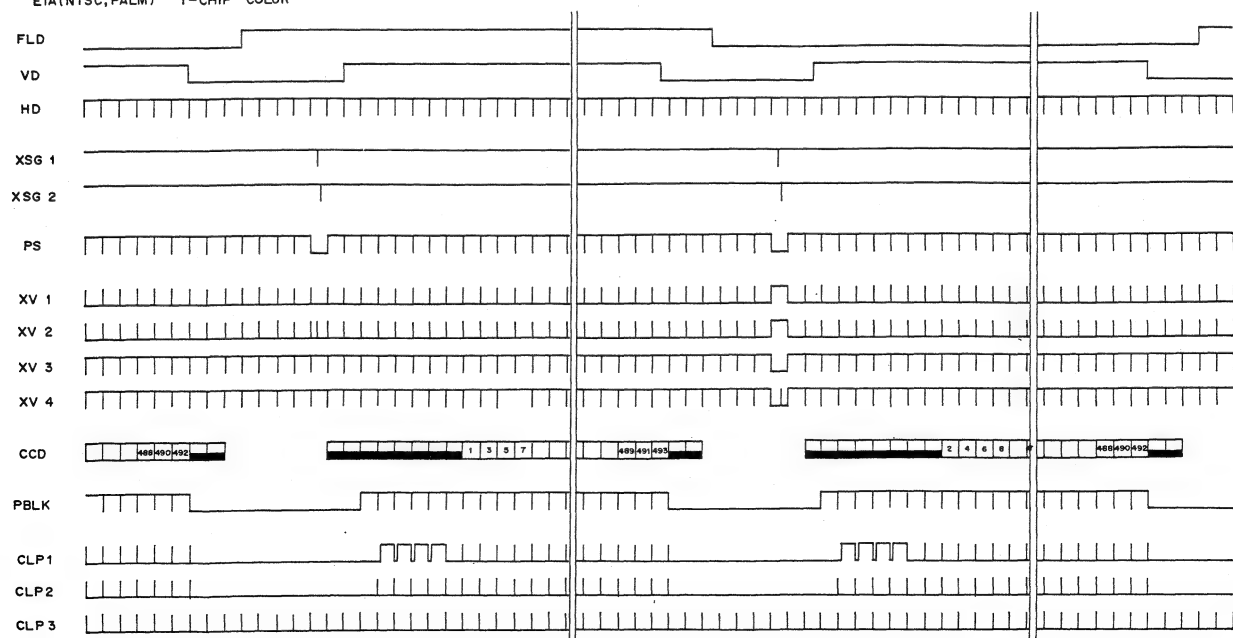
EIA (NTSC, PALM) 1-CHIP COLOR



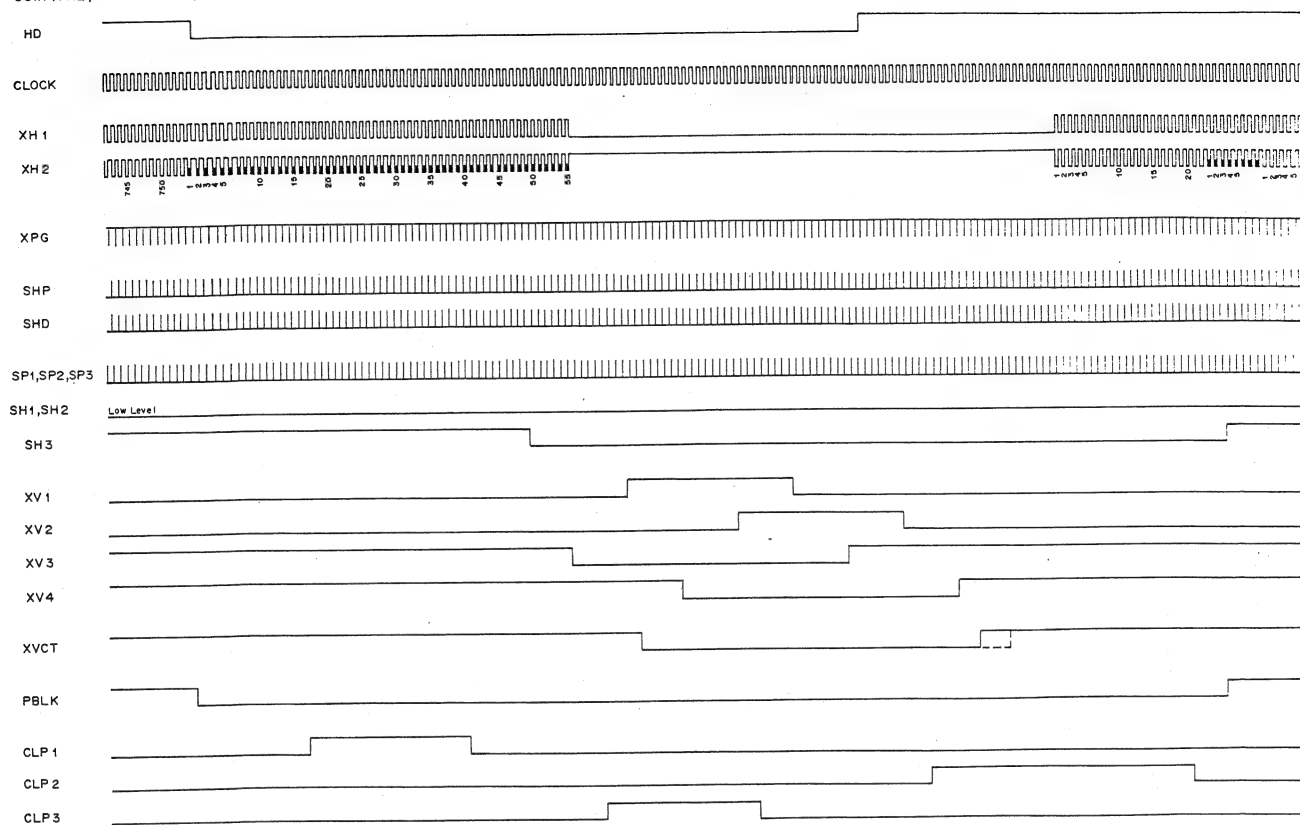
EIA(NTSC,PALM) B/W,3-CHIP COLOR



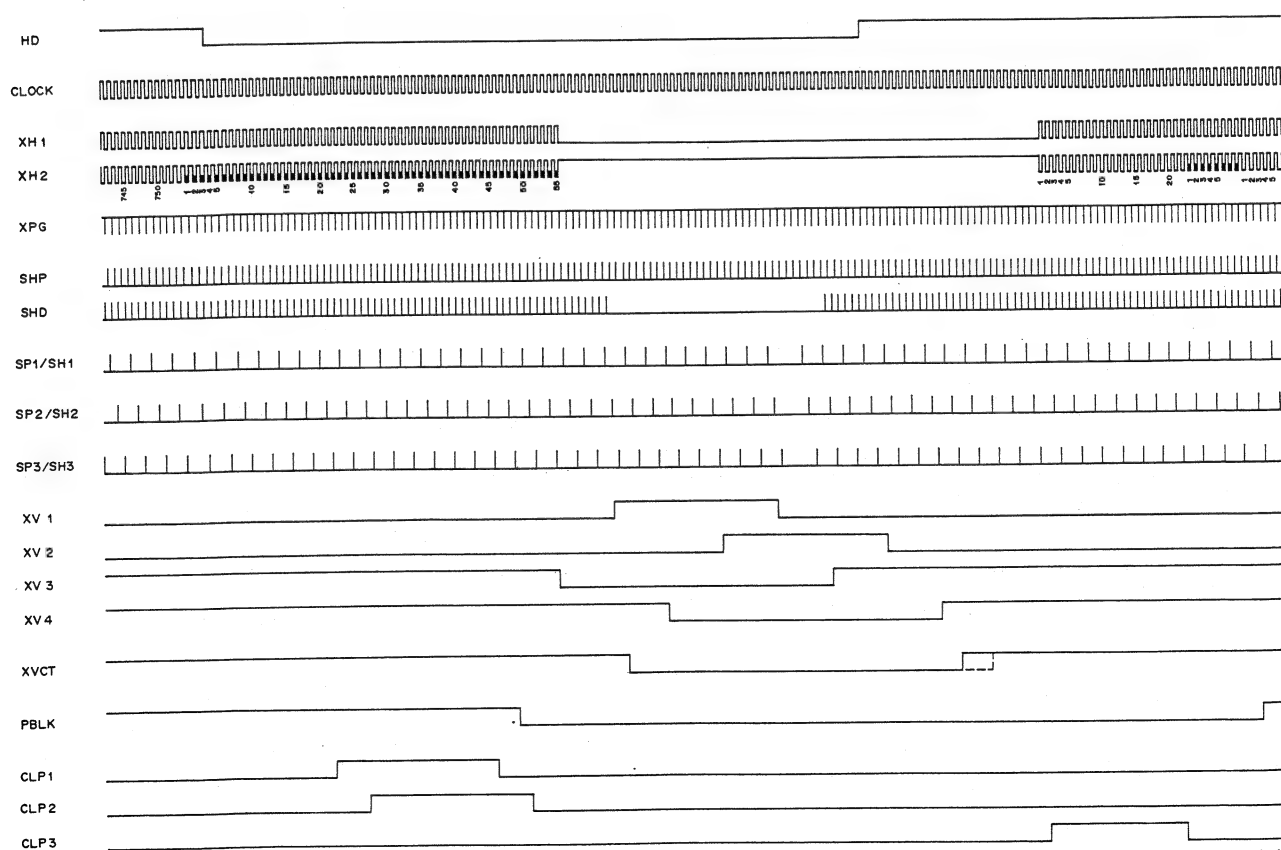
EIA(NTSC,PALM) 1-CHIP COLOR



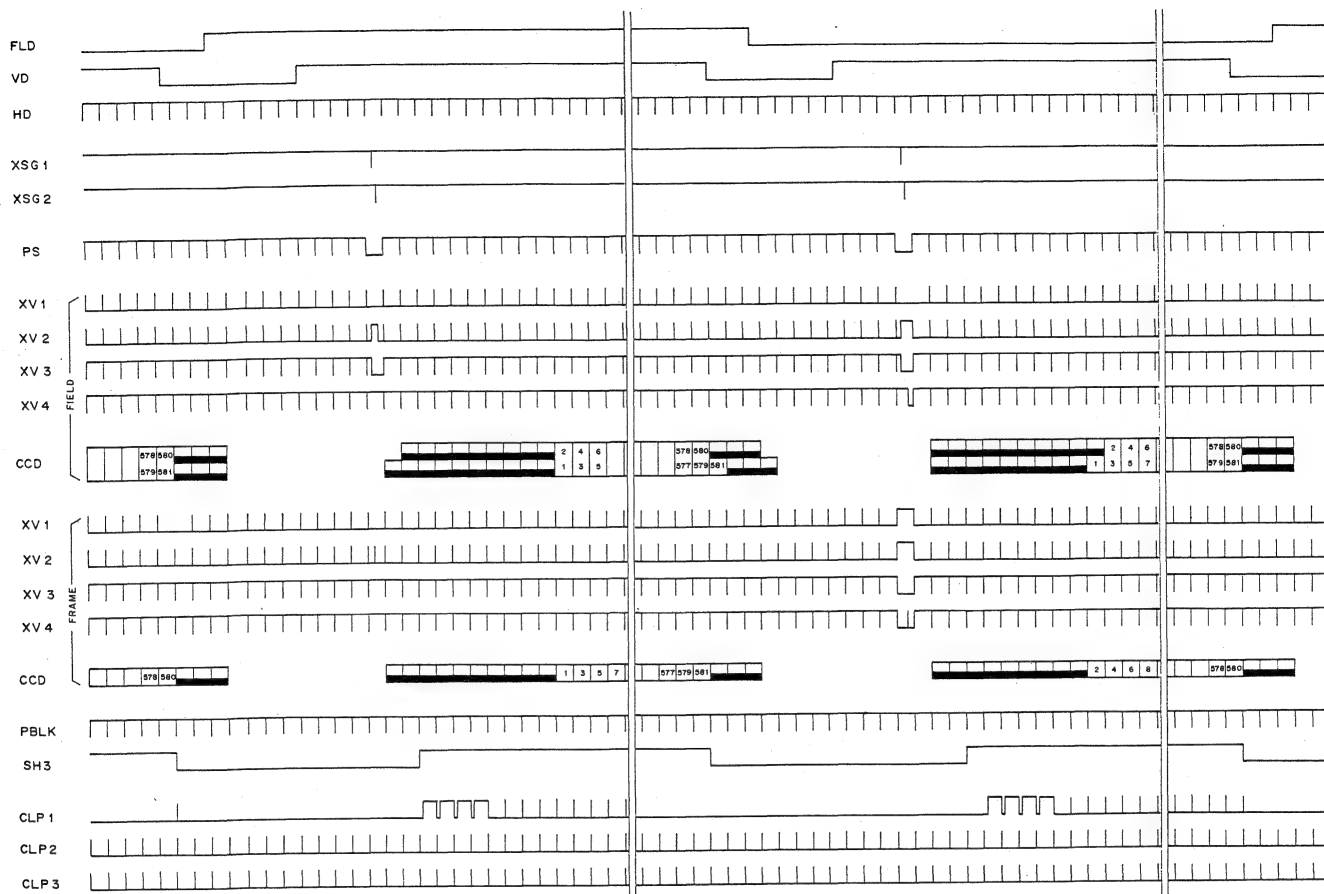
CCIR (PAL, SECAM) B/W, 3 CHIP COLOR



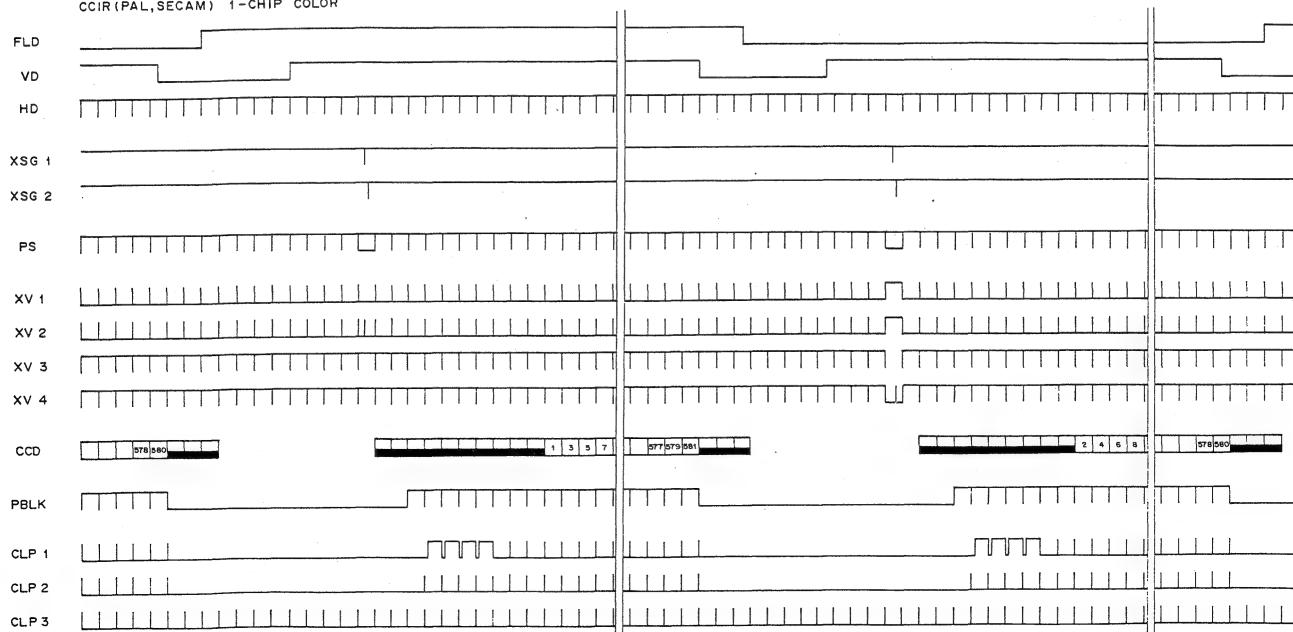
CCIR (PAL, SECAM) 1-CHIP COLOR



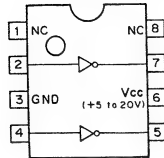
CCIR(PAL,SECAM) B/W,3-CHIP COLOR



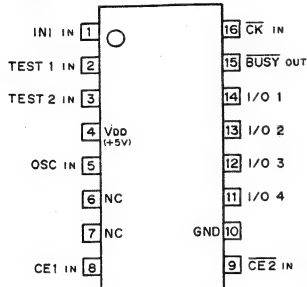
CCIR(PAL,SECAM) 1-CHIP COLOR



CXB0026AM (SONY) FLAT PACKAGE
BIPOLAR MOS CLOCK DRIVER
— TOP VIEW —



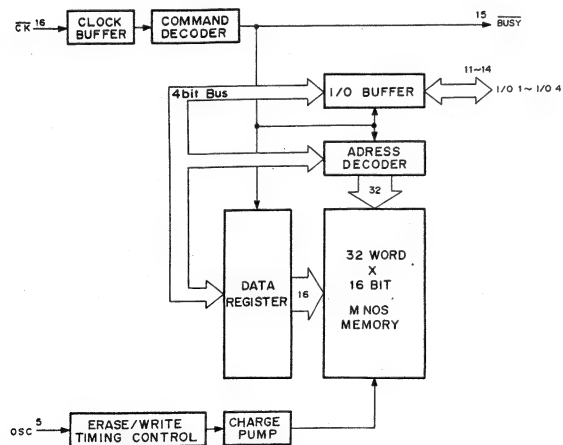
CXK1005P (SONY)
MNOS 512-BIT (32x16) E² PROM
— TOP VIEW —



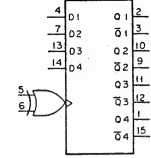
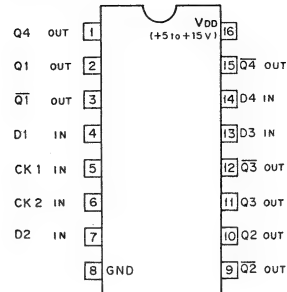
INI: INITIALIZE INPUT
TEST1, TEST2: CONNECTED TO VDD
OSC: OSCILLATOR INPUT
CE1, CE2: CHIP ENABLE INPUT
I/O1-I/O4: ADDRESS/DATA INPUTS/OUTPUTS
BUSY: BUSY SIGNAL OUTPUT
CK: PROCESSOR CLOCK INPUT

INPUT								FUNCTION	
INI	CE	CE	I/O1	I/O2	I/O3	I/O4			
0	1	0	0	0	1	0		READ	
0	1	0	1	0	1	0		WRITE	
0	1	0	X	X	0	0		NO OPERATION	
0	1	0	X	X	0	1		NO OPERATION	
0	1	0	X	X	1	1		NO OPERATION	
0	0	0	X	X	X	X		NO OPERATION	
0	0	1	X	X	X	X		NO OPERATION	
0	1	1	X	X	X	X		NO OPERATION	
1	X	X	X	X	X	X		NO OPERATION	

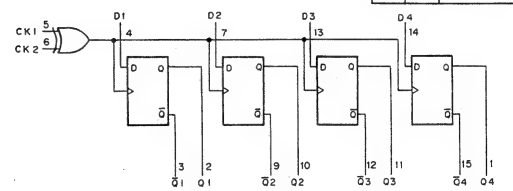
1: HIGH LEVEL
0: LOW LEVEL
X: DON'T CARE



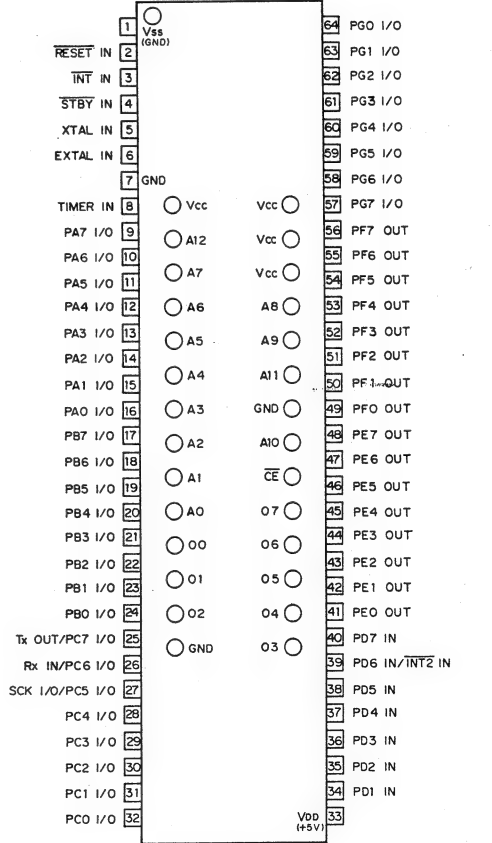
HD14042BFP (HITACHI) FLAT PACKAGE
C-MOS D-TYPE LATCH
— TOP VIEW —



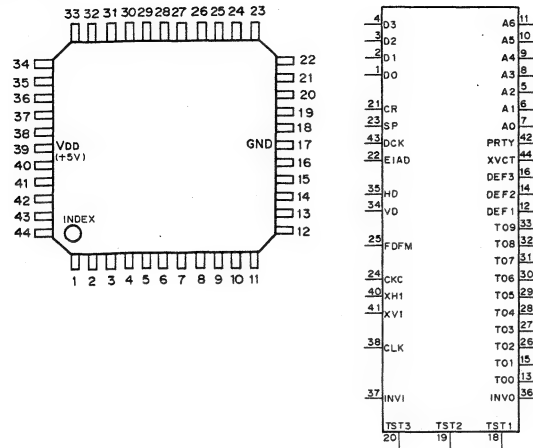
CK1	CK2	Q / Q
0	0	PASS DATA
0	1	LATCH DATA
1	0	LATCH DATA
1	1	PASS DATA



HD63P05Y0 (HITACHI) (INSTRUCTION CYCLE = 1 μs; f_{clk} = 4MHz)
C-MOS 8-BIT MICROCOMPUTER UNIT
— TOP VIEW —

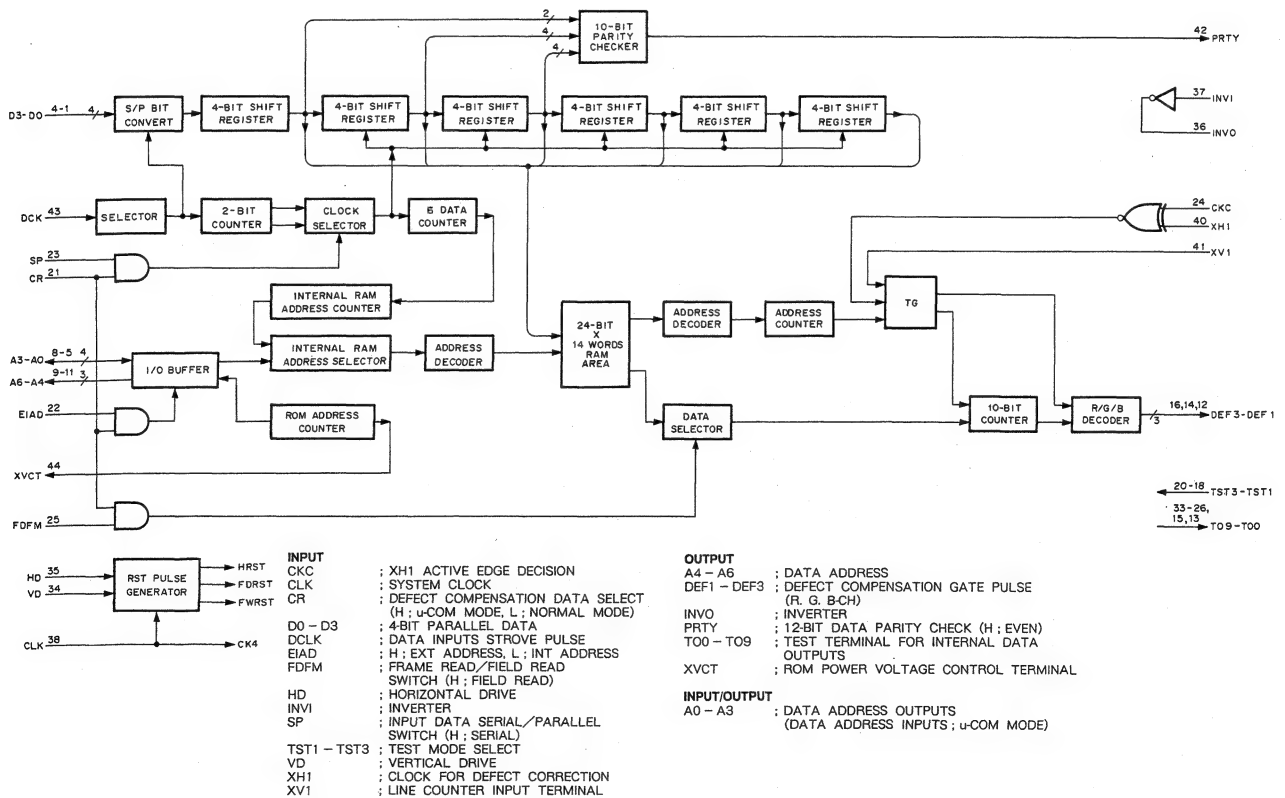


CXD8095Q (SONY) FLAT PACKAGE
C-MOS GATE ARRAY
- TOP VIEW -

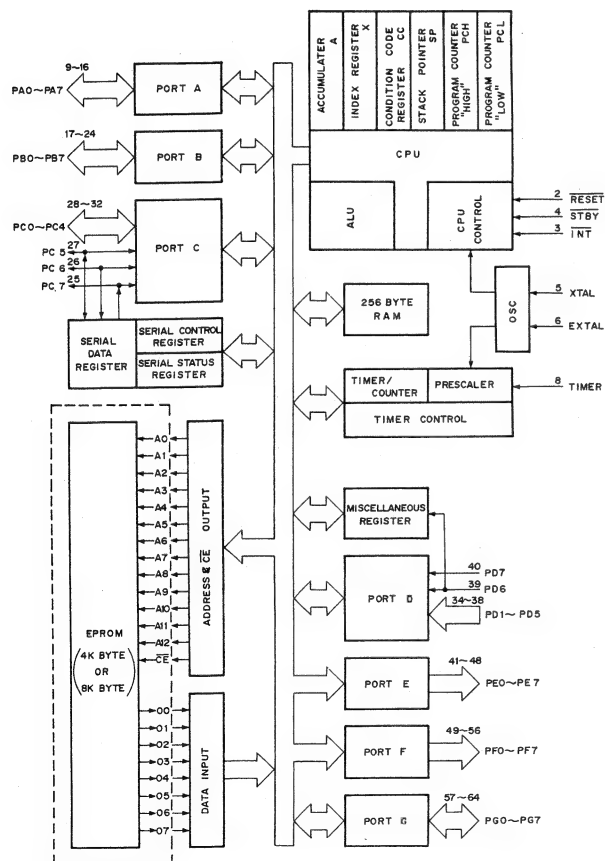
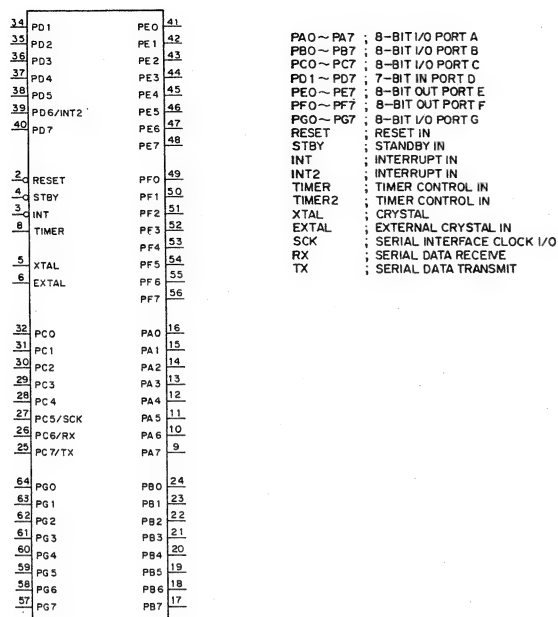


(V_{DD} = +5V)

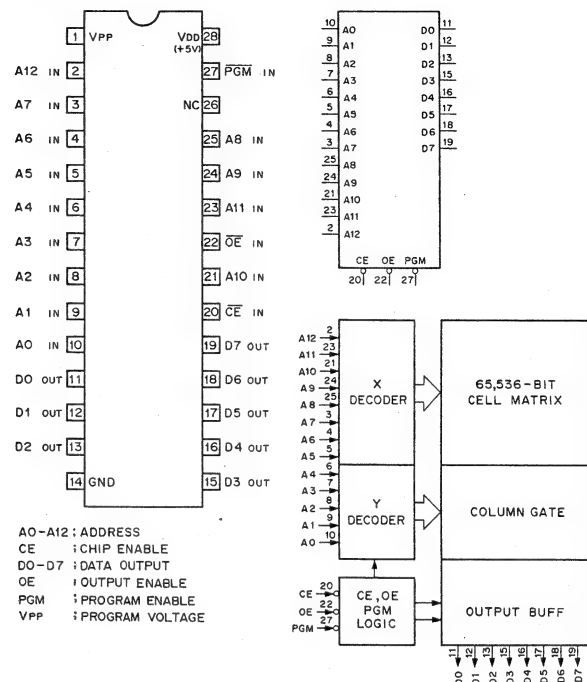
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	D0	12	O	DEF1	23	I	SP	34	I	VD
2	I	D1	13	O	TO0	24	I	CKC	35	I	HD
3	I	D2	14	O	DEF2	25	I	PDFM	36	O	INVO
4	I	D3	15	O	TO1	26	O	TO2	37	I	INVI
5	I/O	A2	16	O	DEF3	27	O	TO3	38	I	CLK
6	I/O	A1	17	-	GND	28	O	TO4	39	-	VDD
7	I/O	A0	18	I	TST1	29	O	TO5	40	I	XH1
8	I/O	A3	19	I	TST2	30	O	TO6	41	I	XV1
9	O	A4	20	I	TST3	31	O	TO7	42	O	PRTY
10	O	A5	21	I	CR	32	O	TO8	43	I	DCK
11	O	A6	22	I	EIAD	33	O	TO9	44	O	XVCT



DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



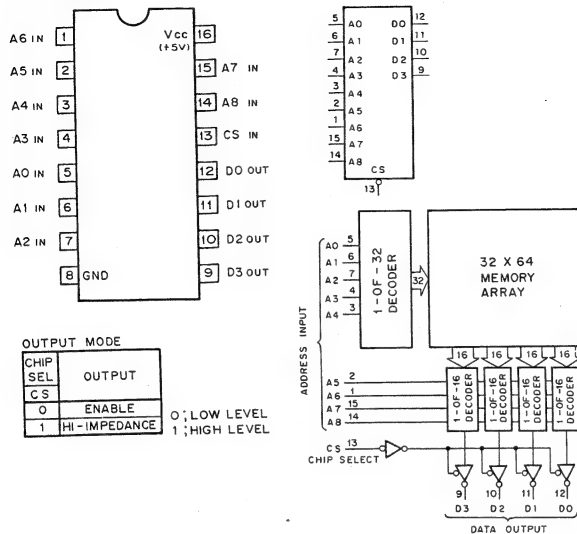
HN27C64G-20 (HITACHI) (ACCESS TIME = 200 nS)
 C-MOS 64K (8K-8) ERASABLE PROM WITH 3-STATE OUTPUTS
 — TOP VIEW —



A _n	CE	OE	PGM	VPP	D _n	FUNCTION
A _n	0	0	1	+5V	D OUT	READ
A _n	0	1	1	+5V	HI-Z	OUTPUT DISABLE
A _n	0	0	0	+5V	HI-Z	OUTPUT DISABLE
X	1	X	X	+5V	HI-Z	STANDBY
A _n	0	X	1	+21V	D IN	PGM
A _n	0	0	1	+21V	D OUT	PGM VERIFY
X	1	X	X	+21V	HI-Z	PGM INH.

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE
 HI-Z; HIGH IMPEDANCE

MB7053 (FUJITSU)
2048-BIT (512x4) PROM (3-STATE OUTPUT)
— TOP VIEW —



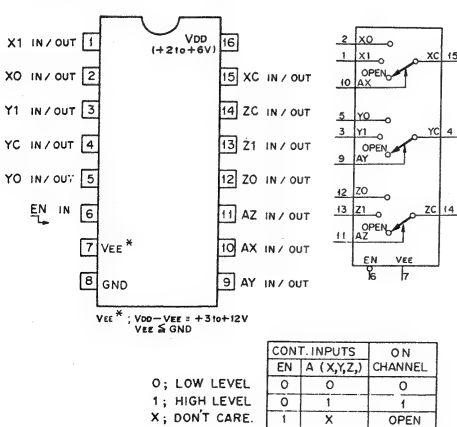
WORD/ADDRESS TABLE

WORD	ADDRESS INPUTS							
	A8	A7	A6	A5	A4	A3	A2	A1
0	000	0	0	0	0	0	0	0
1	001	0	0	0	0	0	0	1
2	002	0	0	0	0	0	1	0
3	003	0	0	0	0	0	1	1
4	004	0	0	0	0	1	0	0
5	005	0	0	0	0	1	0	1
6	006	0	0	0	0	1	1	0
7	007	0	0	0	0	1	1	1
8	008	0	0	0	1	0	0	0
9	009	0	0	0	1	0	0	1
10	010	0	0	0	1	0	1	0
11	011	0	0	0	1	0	1	1
12	012	0	0	0	1	1	0	0
13	013	0	0	0	1	1	0	1
14	014	0	0	0	1	1	1	0
15	015	0	0	0	1	1	1	1
16	016	0	0	1	0	0	0	0
17	017	0	0	1	0	0	0	1
18	018	0	0	1	0	1	0	0
19	019	0	0	1	0	1	0	1
20	020	0	0	1	1	0	0	0
21	021	0	0	1	1	0	0	1
22	022	0	0	1	1	1	0	0
23	023	0	0	1	1	1	0	1
24	024	0	1	0	0	0	0	0
25	025	0	1	0	0	0	0	1
26	026	0	1	0	0	1	0	0
27	027	0	1	0	0	1	0	1
28	028	0	1	0	1	0	0	0
29	029	0	1	0	1	0	0	1
30	030	0	1	0	1	1	0	0
31	031	0	1	0	1	1	0	1
32	032	0	1	1	0	0	0	0
33	033	0	1	1	0	0	0	1
34	034	0	1	1	0	1	0	0
35	035	0	1	1	0	1	0	1
36	036	0	1	1	1	0	0	0
37	037	0	1	1	1	0	0	1
38	038	0	1	1	1	1	0	0
39	039	0	1	1	1	1	0	1
40	040	1	0	0	0	0	0	0
41	041	1	0	0	0	0	0	1
42	042	1	0	0	0	1	0	0
43	043	1	0	0	0	1	0	1
44	044	1	0	0	1	0	0	0
45	045	1	0	0	1	0	0	1
46	046	1	0	0	1	1	0	0
47	047	1	0	0	1	1	0	1
48	048	1	0	1	0	0	0	0
49	049	1	0	1	0	0	0	1
50	050	1	0	1	0	1	0	0
51	051	1	0	1	0	1	0	1
52	052	1	0	1	1	0	0	0
53	053	1	0	1	1	0	0	1
54	054	1	0	1	1	1	0	0
55	055	1	0	1	1	1	0	1
56	056	1	1	0	0	0	0	0
57	057	1	1	0	0	0	0	1
58	058	1	1	0	0	1	0	0
59	059	1	1	0	0	1	0	1
60	060	1	1	0	1	0	0	0
61	061	1	1	0	1	0	0	1
62	062	1	1	0	1	1	0	0
63	063	1	1	0	1	1	0	1
64	064	1	1	1	0	0	0	0
65	065	1	1	1	0	0	0	1
66	066	1	1	1	0	1	0	0
67	067	1	1	1	0	1	0	1
68	068	1	1	1	1	0	0	0
69	069	1	1	1	1	0	0	1
70	070	1	1	1	1	1	0	0
71	071	1	1	1	1	1	0	1
72	072	1	1	1	1	1	1	0
73	073	1	1	1	1	1	1	1

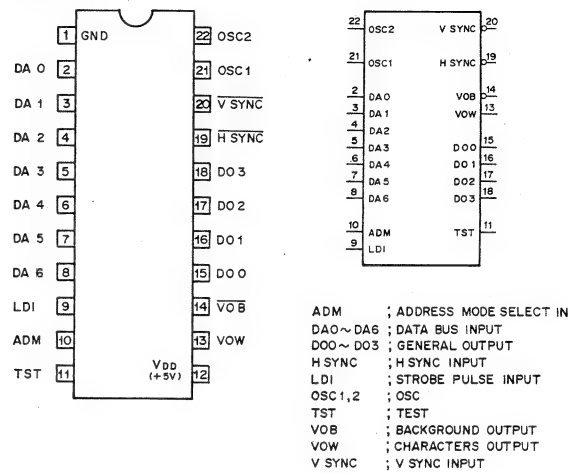
DATA CODE / ACTUAL DATA

DATA CODE	ACTUAL DATA			
	D3	D2	D1	D0
0	0	0	0	0
1	1	0	0	0
2	0	0	0	1
3	3	0	0	1
4	4	0	1	0
5	5	0	1	0
6	6	0	1	1
7	7	0	1	1
8	8	1	0	0
9	9	1	0	0
10	A	1	0	1
11	B	1	0	1
12	C	1	1	0
13	D	1	1	0
14	E	1	1	1
15	F	1	1	1

MC74HC4053F (MOTOROLA) FLAT PACKAGE
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

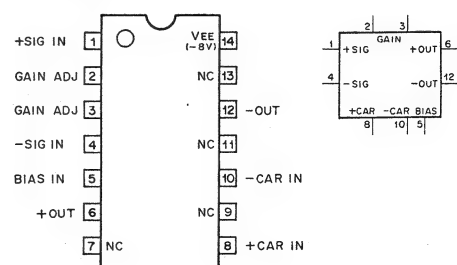


MN1237AD (MATSUSHITA)
C-MOS INDICATES DATA OF 60 CHARACTERS CRT INTERFACE
— TOP VIEW —

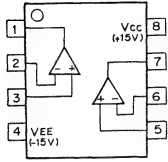


A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z
0 1 2 3 4 5 6 7 8 9
. : . - ? / □ □

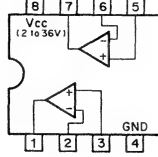
NJM1496M (JRC) FLAT PACKAGE
BALANCED MODULATOR/DEMODULATOR
— TOP VIEW —



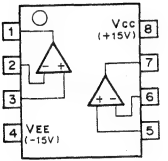
NJM2043M-D (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



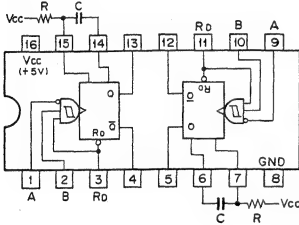
NJM2903M (JRC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



NJM4560M (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



SN74LS221 NS (TI) FLAT PACKAGE
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —

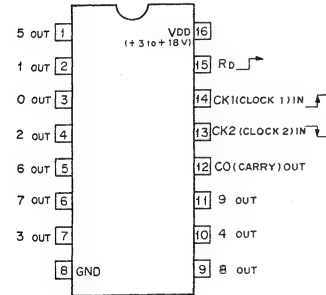


INPUTS		OUTPUTS	
Rd	A	B	Q
0	X	X	0
X	1	X	0
X	X	0	0
1	0	1	1
1	1	1	1
1	0	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

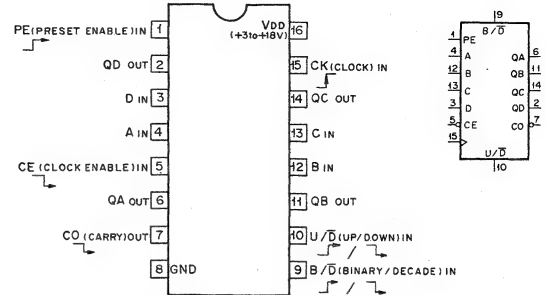
TC4017BF (TOSHIBA) FLAT PACKAGE
C-MOS DECADE COUNTER/DIVIDER
— TOP VIEW —



COUNT	INPUTS			OUTPUTS									
	Rd	CK1	CK2	9	8	7	6	5	4	3	2	1	0
0	1	X	0	0	0	0	0	0	0	0	0	1	1
0	0	1	0	0	0	0	0	0	0	0	0	1	1
1	0	0	1	0	0	0	0	0	0	0	1	0	1
2	0	0	0	0	0	0	0	0	0	1	0	0	1
3	0	0	0	0	0	0	0	0	1	0	0	0	1
4	0	0	0	0	0	0	0	1	0	0	0	0	1
5	0	0	0	0	0	0	1	0	0	0	0	0	0
6	0	0	0	0	0	1	0	0	0	0	0	0	0
7	0	0	0	0	1	0	0	0	0	0	0	0	0
8	0	0	1	0	0	0	0	0	0	0	0	0	0
9	0	0	1	0	0	0	0	0	0	0	0	0	0
NO COUNT	0	1	0										
	0	0											

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4029BF (FSC)
C-MOS PRESETTABLE 4-BIT BINARY/DECADE UP/DOWN COUNTER
— TOP VIEW —



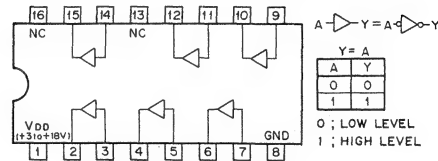
INPUTS				MODE	
CE	PE	U/D	B/D		
0	0	1	X	UP COUNT	
0	0	0	X	DOWN COUNT	
X	1	X	X	PRESET	
1	0	X	X	NO COUNT	
0	0	X	1	BINARY COUNT	
0	0	X	0	DECADE COUNT	

0; LOW
1; HIGH
X; DON'T CARE

STATE	OUTPUTS				COUNT
	QA	QB	QC	QD	
0	0	0	0	0	0
1	0	0	0	1	1
2	0	0	1	0	2
3	0	0	1	1	3
4	0	1	0	0	4
5	0	1	0	1	5
6	0	1	1	0	6
7	0	1	1	1	7
8	1	0	0	0	8
9	1	0	0	1	9
10	1	0	1	0	10
11	1	0	1	1	11
12	1	1	0	0	12
13	1	1	0	1	13
14	1	1	1	0	14
15	1	1	1	1	15

NOTE: CO IS HIGH WHEN CE IS HIGH, REGARDLESS OTHER CONDITIONS.

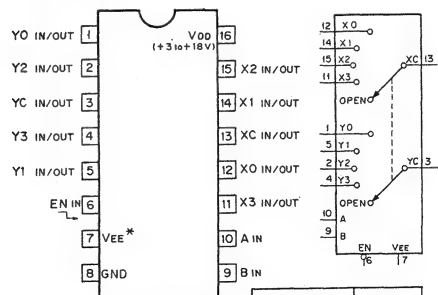
TC4050BF (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



Y = A	
A	Y
0	0
1	1

0; LOW LEVEL
1; HIGH LEVEL

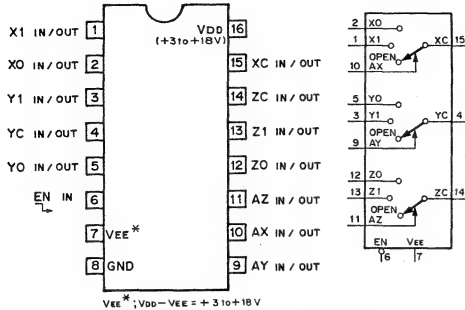
TC4052BFHB (TOSHIBA) FLAT PACKAGE
C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

TC4053BFHB (TOSHIBA) FLAT PACKAGE
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

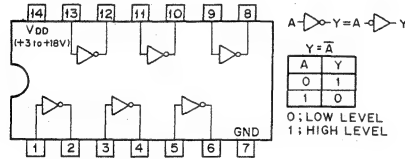


VEE*: VDD - VEE = +3 to +18V

CONT. INPUTS	ON CHANNEL
EN A (X,Y,Z)	
0	0
1	1
X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

TC4069UBF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER
— TOP VIEW —

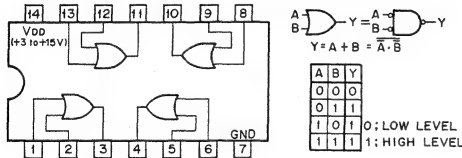


$$Y = \bar{A}$$

A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

TC4071BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —

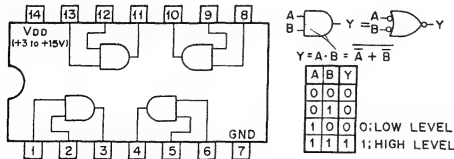


$$Y = A + B = \bar{A} \cdot \bar{B}$$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

TC4081BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
— TOP VIEW —

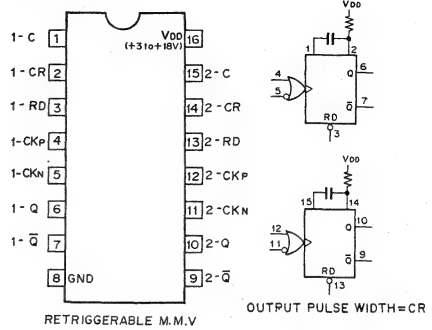


$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

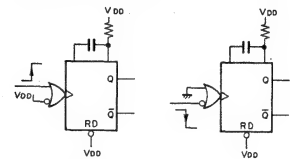
0; LOW LEVEL
1; HIGH LEVEL

TC4538BF (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE
MONOSTABLE MULTIVIBRATOR
— TOP VIEW —

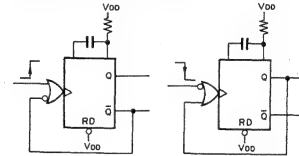


RETRIGGERABLE M.M.V

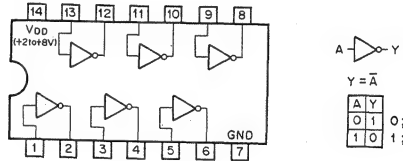
OUTPUT PULSE WIDTH = CR



NON-RETRIGGERABLE M.M.V



TC40H004F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER
— TOP VIEW —

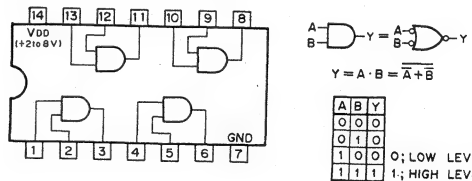


$$Y = \bar{A}$$

A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

TC40H008F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT POSITIVE-AND GATE
— TOP VIEW —

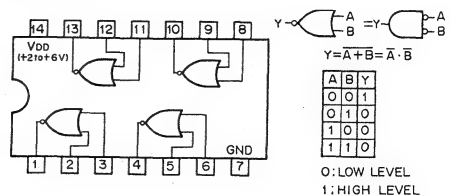


$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

SN74HC02ANS (TI) FLAT PACKAGE
SN74HC02NS (TI) FLAT PACKAGE
TC74HC02F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT POSITIVE-NOR GATE
— TOP VIEW —

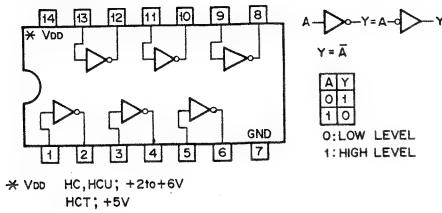


$$Y = A + B = \overline{A \cdot B}$$

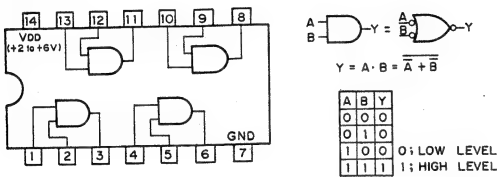
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

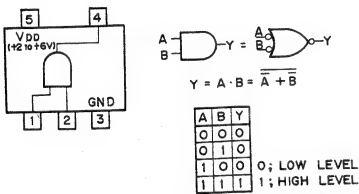
SN74HC04ANS (TI) FLAT PACKAGE
SN74HC04NS (TI) FLAT PACKAGE
TC74HC04F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER
- TOP VIEW -



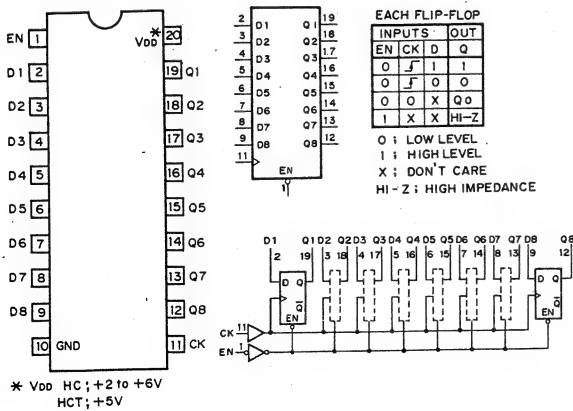
SN74HC08NS (TI) FLAT PACKAGE
TC74HC08F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
- TOP VIEW -



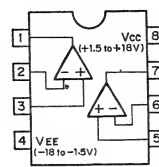
TC7S08F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
- TOP VIEW -



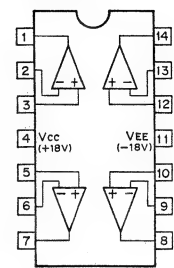
TC74HC574F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
- TOP VIEW -



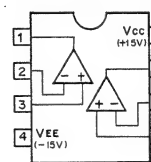
TL062ACPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(JFET INPUT)
- TOP VIEW -



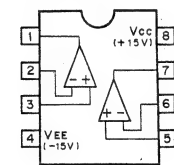
TL064CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



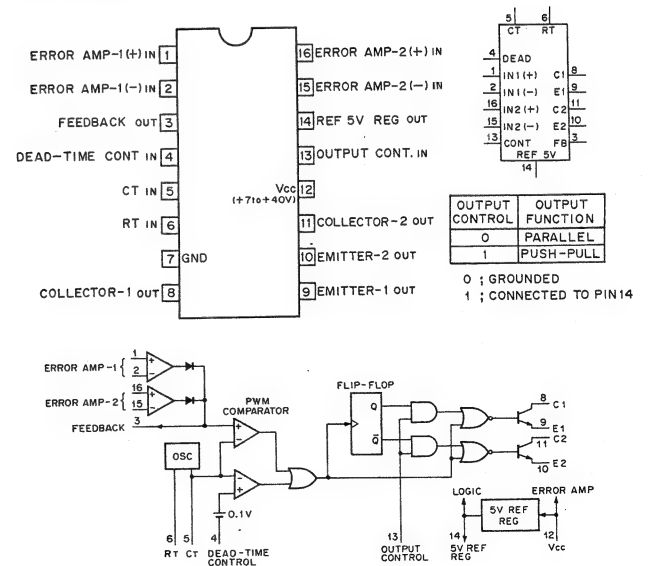
TL072CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
- TOP VIEW -



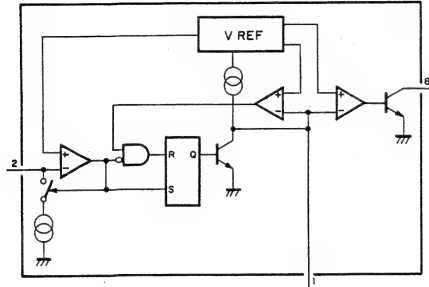
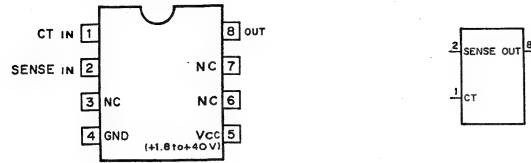
TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



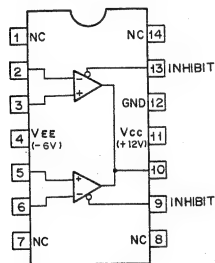
TL494CNS (TI) FLAT PACKAGE
PWM POWER CONTROL
- TOP VIEW -



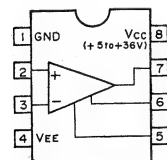
TL7700CPS (TI) FLAT PACKAGE
VARIABLE SUPPLY VOLTAGE SUPERVISOR
— TOP VIEW —



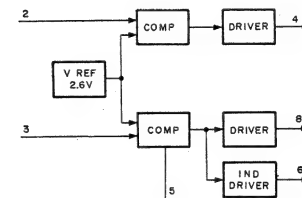
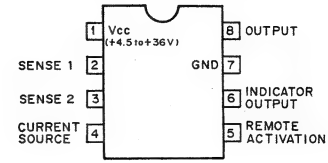
uA711 CNS (TI)
VOLTAGE COMPARATOR
— TOP VIEW —



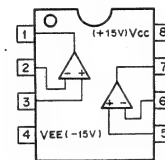
uPC311G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



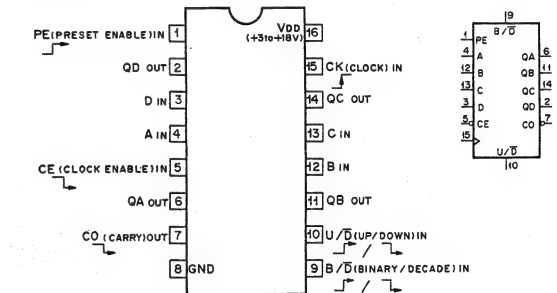
uPC3423C (NEC)
OVERVOLTAGE CROWBAR SENSING CIRCUIT
— TOP VIEW —



uPC4558G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



uPD4029BG (NEC) FLAT PACKAGE
C-MOS PRESETTABLE 4-BIT BINARY/DECADE UP/DOWN COUNTER
— TOP VIEW —

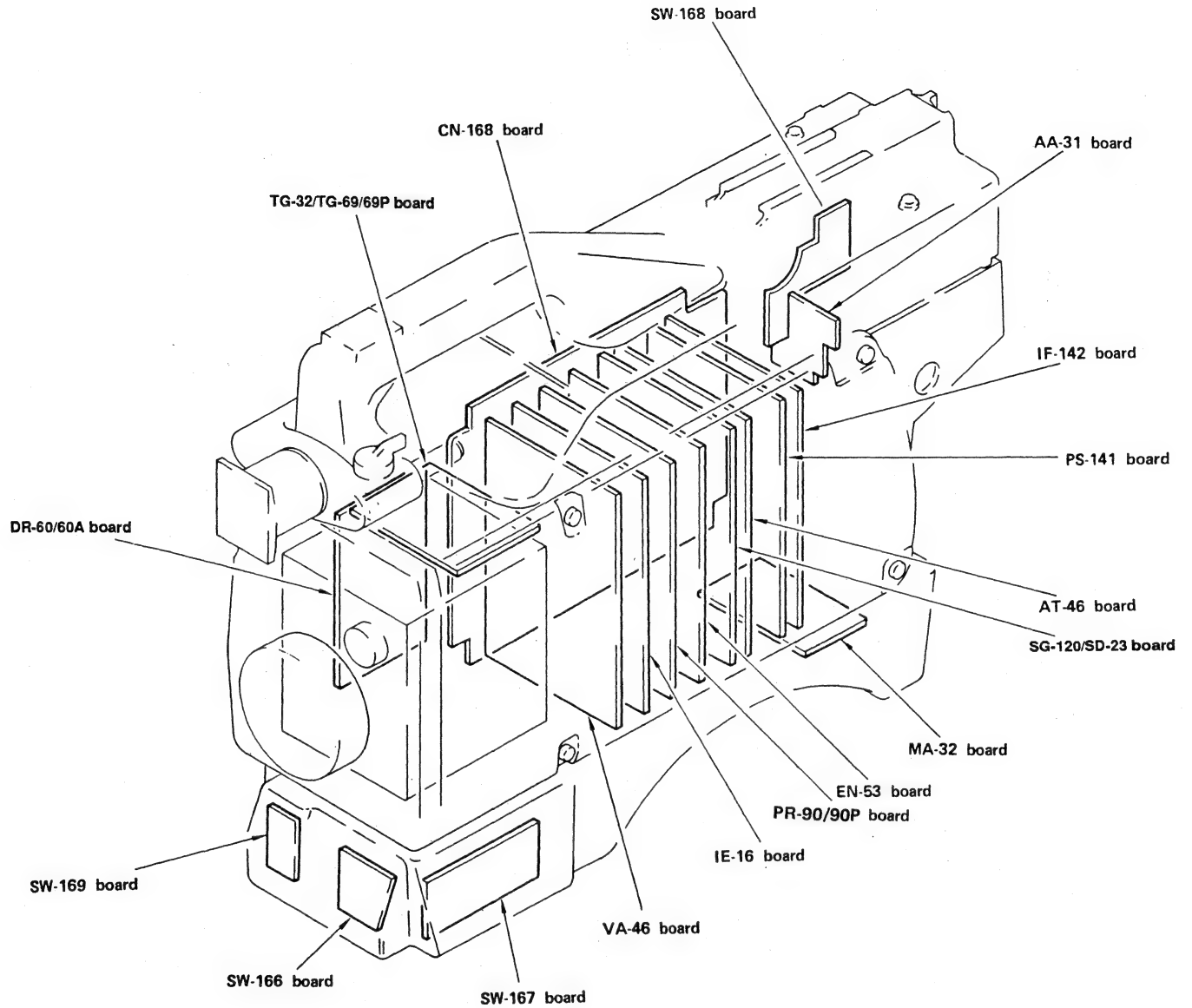


INPUTS				MODE	OUTPUTS							
CE	PE	U/D	B/D		STATE	QA	QB	QC	QD	CO	QA	QB
0	0	1	X	UP COUNT	0	0	0	0	1	0	1	0
0	0	0	X	DOWN COUNT	1	0	0	1	1	1	1	1
X	1	X	X	PRESET	2	0	0	1	0	1	1	1
1	0	X	X	NO COUNT	3	0	0	1	1	1	1	1
0	0	X	1	BINARY COUNT	4	0	1	0	0	1	1	1
0	0	X	0	DECADE COUNT	5	0	1	0	1	1	1	1
0	0	1	0	UP COUNT	6	0	1	1	0	1	1	1
0	0	1	1	DOWN COUNT	7	0	1	1	1	1	1	1
0	0	0	1	NO COUNT	8	1	0	0	0	1	1	1
0	0	0	0	PRESET	9	1	0	0	1	1	1	1
0	0	1	1	BINARY COUNT	10	1	0	1	0	1	1	1
0	0	1	0	DECADE COUNT	11	1	0	1	1	1	1	1
0	0	0	1	UP COUNT	12	1	1	0	0	1	1	1
0	0	0	0	DOWN COUNT	13	1	1	0	1	1	1	1
0	0	1	0	NO COUNT	14	1	1	1	0	1	1	1
0	0	1	1	PRESET	15	1	1	1	1	0	1	1

NOTE: CO IS HIGH WHEN CE IS HIGH, REGARDLESS OTHER CONDITIONS.

SECTION 6

SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



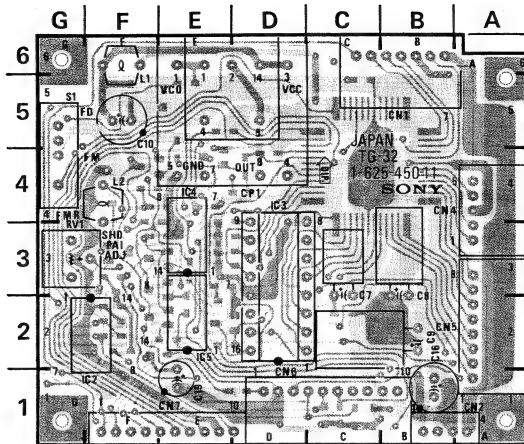
TG-32 BOARD (TIMING PULSE GENERATOR)

Ser.No.10001-10400 (UC)
30001-30350 (J)

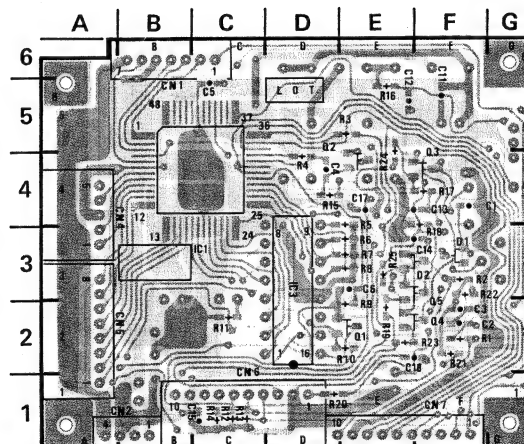
TG-32 (1-625-450-11)

CN1 B-6 C
B-6 S
CN2 B-1 C
B-1 S
CN4 A-4 C
A-4 S
CN5 A-2 C
A-2 S
CN6 C-1 C
C-1 S
CN7 E-1 C
E-1 S
CD1 D-5 C
D1 F-3 S
D2 F-3 S
IC1 C-4 S
IC2 F-2 C
IC3 D-3 C
D-3 S
IC4 E-3 C
E-2 C
IC5 E-2 C
Q1 E-2 S
Q2 E-4 S
Q3 F-4 S
Q4 F-2 S
Q5 F-3 S
RV1 G-3 C
S1 G-4 C

*-C; COMPONENT SIDE
*-S; SOLDER SIDE



TG-32 - COMPONENT SIDE -
1-625-450-11
DXC-M7 (J, UC)



TG-32 - SOLDER SIDE -
1-625-450-11
DXC-M7 (J, UC)

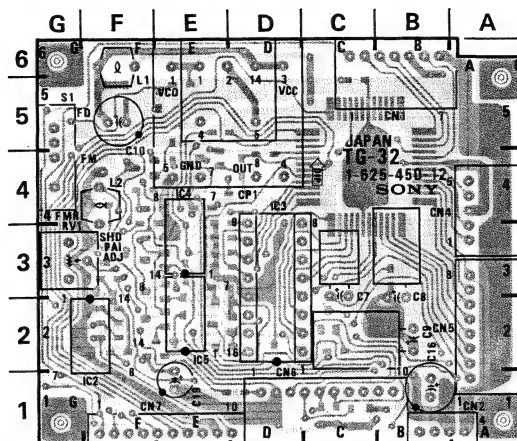
TG-32 BOARD (TIMING PULSE GENERATOR)

Ser.No.10401-11610 (UC)
30351-31200 (J)

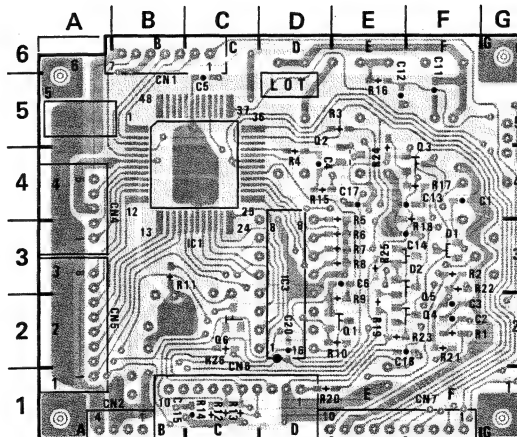
TG-32 (1-625-450-12)

CN1 B-6 C
B-6 S
CN2 B-1 C
B-1 S
CN4 A-4 C
A-4 S
CN5 A-2 C
A-2 S
CN6 C-1 C
C-1 S
CN7 E-1 C
E-1 S
CP1 D-5 C
D1 F-3 S
D2 F-3 S
IC1 C-4 S
IC2 F-2 C
IC3 D-3 C
D-3 S
IC4 E-3 C
E-2 C
Q1 E-2 S
Q2 E-4 S
Q3 F-4 S
Q4 F-2 S
Q5 F-3 S
RV1 G-3 C
S1 G-4 C

*-C: COMPONENT SIDE
*-S: SOLDER SIDE



TG-32 - COMPONENT SIDE -
1-625-450-12
DXC-M7 (J, UC)



TG-32 - SOLDER SIDE -
1-625-450-12
DXC-M7 (J, UC)



TG-32

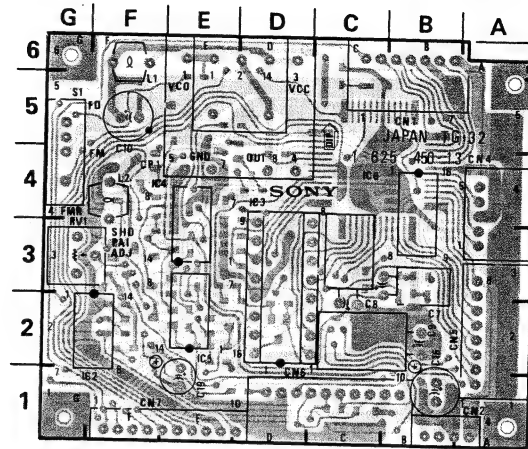
TG-32 BOARD (TIMING PULSE GENERATOR)

Ser.No. 11611-12250 (UC)
31201-31410 (J)
40001-43090 (EK)
70001-70030 (BRZ)

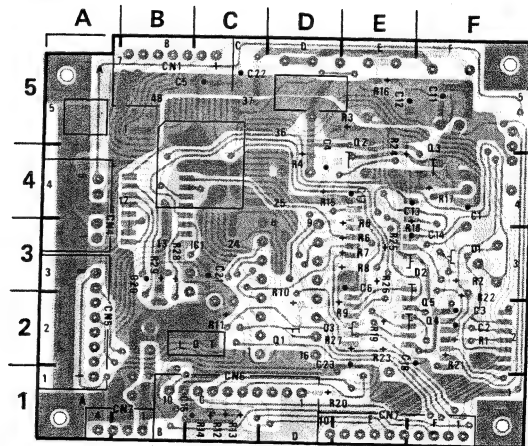
TG-32 (1-625-450-13)

CN1 B-6 C
B-6 S
CN2 B-1 C
B-1 S
CN4 A-4 C
A-4 S
CN5 A-2 C
A-2 S
CN6 C-1 C
C-1 S
CN7 E-1 C
E-1 S
CP1 D-5 C
D1 F-3 S
D2 F-3 S
D3 E-2 S
IC1 C-4 S
IC2 F-2 C
IC3 D-3 C
D-3 S
IC4 E-3 C
IC5 E-2 C
IC6 B-4 C
Q1 D-2 S
Q2 E-4 S
Q3 F-4 S
Q4 F-2 S
Q5 F-3 S
RV1 G-3 C
S1 G-4 C

*-C; COMPONENT SIDE
*-S; SOLDER SIDE



TG-32 - COMPONENT SIDE -
1-625-450-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



TG-32 - SOLDER SIDE -
1-625-450-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

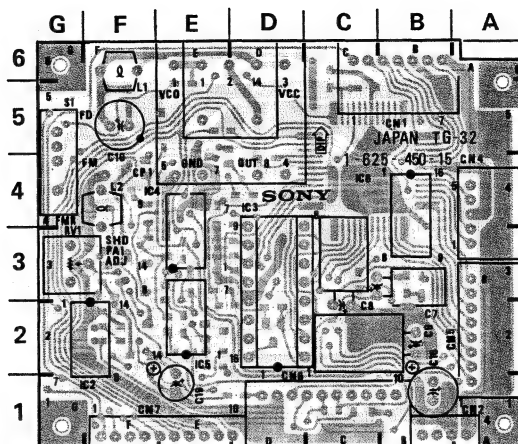
TG-32 BOARD (TIMING PULSE GENERATOR)

Ser.No.12251-13260 (UC)
31411-31420 (J)
43091-44060 (EK)
70031-70050 (BRZ)

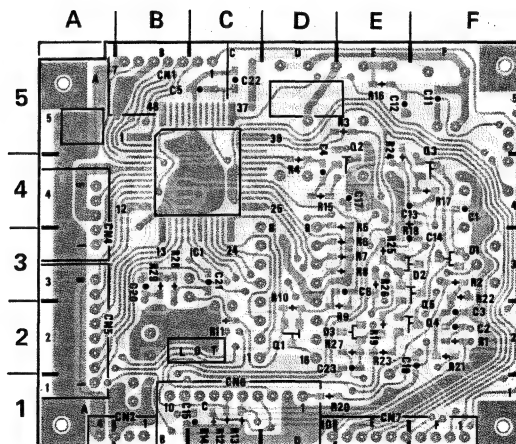
TG-32 (1-625-450-14,15)

CN1 B-6 C
B-6 S
CN2 B-1 C
B-1 S
CN4 A-4 C
A-4 S
CN5 A-2 C
A-2 S
CN6 C-1 C
C-1 S
CN7 E-1 C
E-1 S
CP1 D-5 C
D1 F-3 S
D2 F-3 S
D3 E-2 S
IC1 C-4 S
IC2 F-2 C
IC3 D-3 C
D-3 S
IC4 E-3 C
IC5 E-2 C
IC6 B-4 C
Q1 D-2 S
Q2 E-4 S
Q3 F-4 S
Q4 F-2 S
Q5 F-3 S
RV1 G-3 C
S1 G-4 C

- C; COMPONENT SIDE
- S; SOLDER SIDE



TG-32 - COMPONENT SIDE -
1-625-450-14,15
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



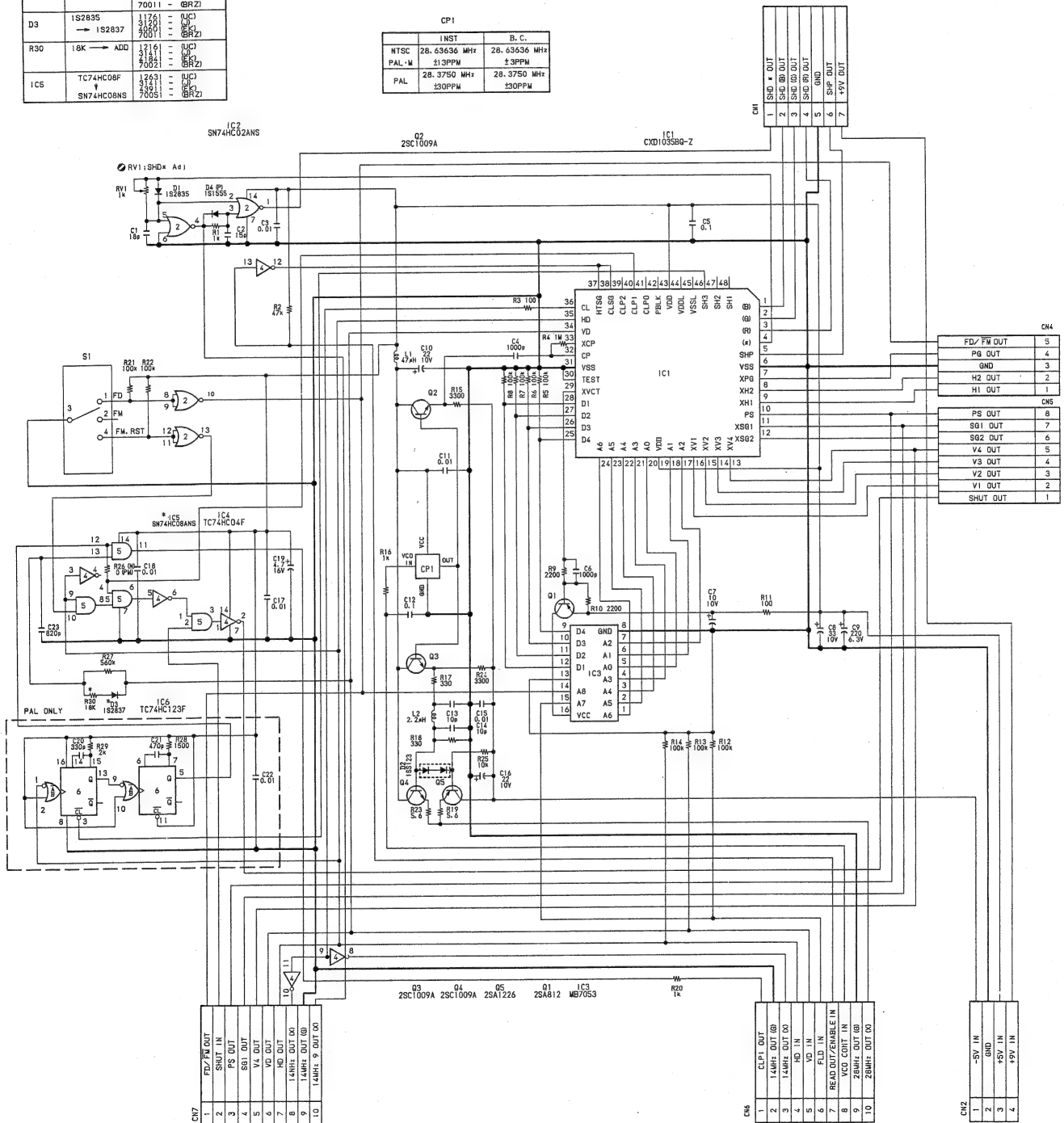
TG-32 - SOLDER SIDE -
1-625-450-14,15
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

Ser No. 10001 - 13260 (UC)
 30001 - 31420 (J)
 40001 - 44060 (EK)
 70001 - 70050 (BRZ)

* CHANGE INFORMATION

REF. NO.	DESCRIPTION	EFFECTIVE SER. NO.
D3	1S1555 → 1S2835	10401 - (UC) 30351 - (J) 40001 - (EK) 70001 - (BRZ)
C1	22P → 18P	11941 - (UC)
C5	0.033 → 0.1	30201 - (J) 40201 - (EK) 70011 - (BRZ)
D3	1S2835 → 1S2837	11761 - (UC) 31201 - (J) 40001 - (EK) 70011 - (BRZ)
R30	18K → 30K	12161 - (UC) 31411 - (J) 40001 - (EK) 70021 - (BRZ)
IC5	TC74HC08F → SN74HC08NS	12631 - (UC) 31411 - (J) 40001 - (EK) 70051 - (BRZ)

	INST	B. C.
NTSC	28.63636 MHz	28.63636 MHz
PAL-M	31.3PPM	31.3PPM
PAL	28.3750 MHz	28.3750 MHz
	33.0PPM	33.0PPM



DXC-M7 (J) (UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

TG-69/69P BOARD (TIMING PULSE GENERATOR)

Ser.No.13261- (UC)
31421- (J)
44061- (EK)

TG-69/69P (1-633-740-12)

CN8 D-3 C

CN1 C-4 C

C-4 S

CN2 D-4 C

D-4 S

CN3 D-4 C

D-4 S

CN4 E-2 C

E-2 S

CN5 E-2 C

E-2 S

CN6 C-1 C

C-1 S

CN7 E-1 C

E-1 S

CN8 B-1 C

B-1 S

CN9 E-4 C

E-4 S

CP1 B-3 C

D1 A-3 S

D2 C-4 S

D3 B-1 S

D4 A-3 C

IC1 C-3 S

IC2 B-3 S

IC3 C-2 C

IC4 B-2 S

IC5 B-1 C

IC6 A-1 S

IC7 C-4 C

IC9 E-2 C

IC10 E-2 C

IC11 E-2 C

IC12 D-4 C

IC13 E-4 C

Q1 C-1 S

Q2 C-3 S

Q3 B-4 S

Q4 B-4 S

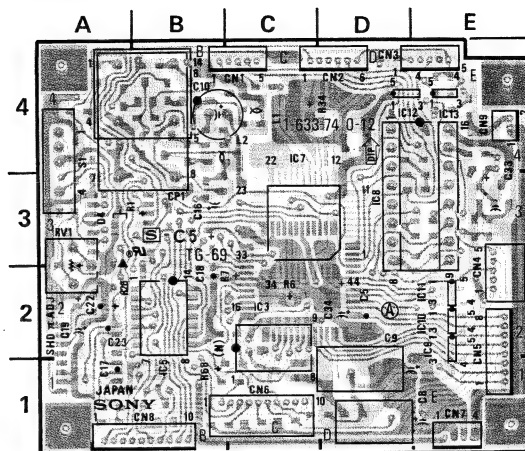
Q5 B-4 S

Q6 E-3 S

RV1 A-3 C

S1 A-4 C

** C; COMPONENT SIDE
** S; SOLDER SIDE



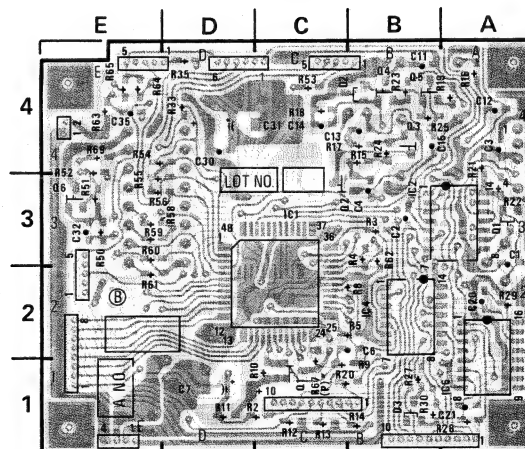
TG-69/69P - COMPONENT SIDE -

1-633-740-12

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)



TG-69/69P - SOLDER SIDE -

1-633-740-12

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)

VA-46

VA-46

VA-46 BOARD (VIDEO AMPLIFIER)

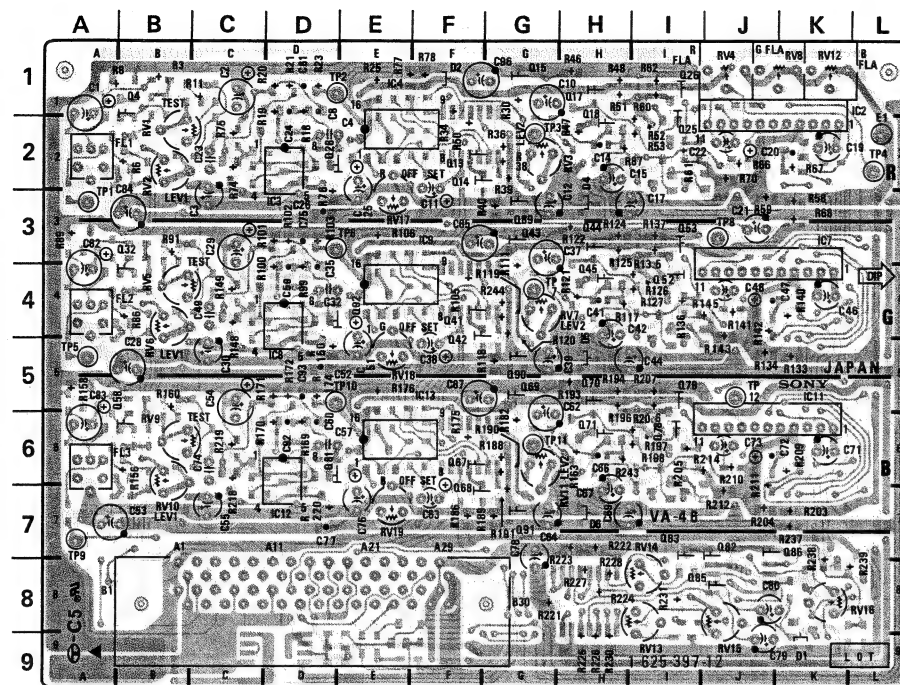
Ser.No.10401-11350 (UC)
30351-31200 (J)

VA-46 (1-625-397-12)

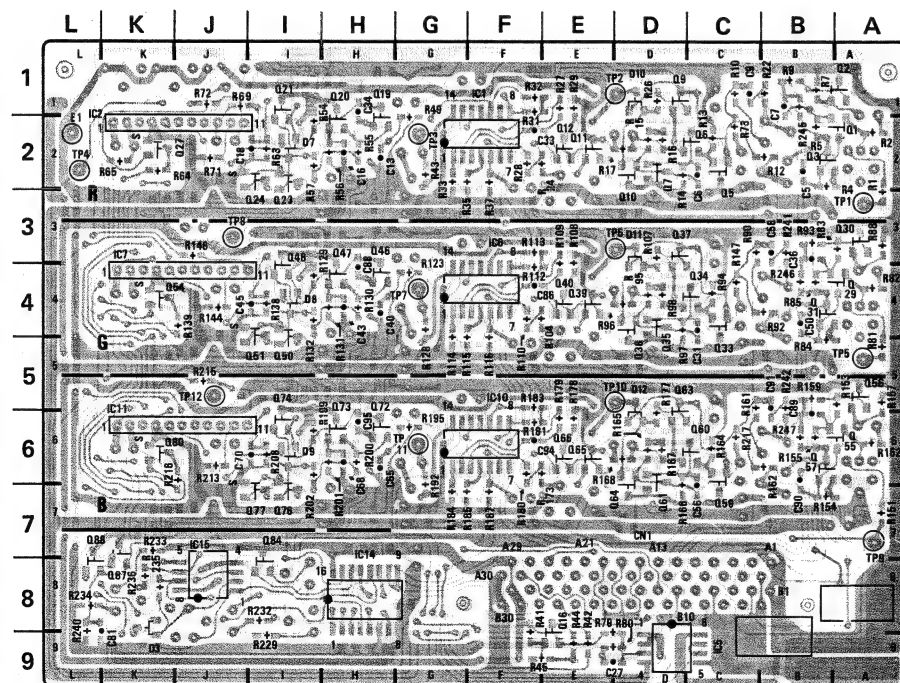
CN1	D-7 S	Q50	I-5 S
D1	K-9 C	Q51	I-5 S
D2	F-1 C	Q52	I-4 C
D3	K-8 S	Q53	I-3 C
D4	H-3 C	Q54	K-4 S
D5	H-5 C	Q55	A-6 S
D6	H-7 C	Q56	A-5 S
D7	I-2 S	Q57	B-6 S
D8	I-4 S	Q58	B-6 C
D9	I-6 S	Q59	C-6 S
D11	D-3 S	Q60	C-6 S
D12	D-6 S	Q61	D-7 S
E1	L-2 C	Q62	D-5 S
	L-2 S	Q63	D-7 S
FL1	A-2 C	Q64	E-6 S
FL2	A-4 C	Q65	E-6 S
FL3	A-6 C	Q66	F-6 C
IC1	F-2 S	Q67	F-7 C
IC2	J-1 C	Q68	G-5 C
	J-2 S	Q69	H-5 C
IC3	D-2 C	Q70	H-6 C
IC4	E-2 C	Q71	H-6 S
IC5	D-9 S	Q72	H-6 S
IC6	F-4 S	Q73	H-6 S
IC7	J-3 C	Q74	I-6 S
	J-4 S	Q75	I-7 S
IC8	D-4 C	Q76	I-7 S
IC9	E-4 C	Q77	I-7 S
IC10	F-6 S	Q78	I-6 C
IC11	J-6 C	Q79	I-5 C
	J-6 S	Q80	K-6 S
IC12	D-6 C	Q81	D-6 C
IC13	E-6 C	Q82	J-7 C
IC14	H-8 S	Q83	I-7 C
IC15	J-8 S	Q84	I-7 C
		Q85	I-8 C
Q1	A-2 S	Q86	K-7 C
Q2	A-1 S	Q87	J-8 S
Q3	B-2 S	Q88	L-7 S
Q4	B-1 C	Q89	G-3 C
Q5	C-2 S	Q90	G-5 C
Q6	C-2 S	Q91	G-7 C
Q7	D-2 S	Q92	E-4 C
Q8	D-1 S	RV1	B-2 C
Q9	D-1 S	RV2	B-2 C
Q10	D-2 S	RV3	B-2 C
Q11	E-2 S	RV4	J-1 C
Q12	E-2 S	RV5	B-4 C
Q13	F-2 C	RV6	B-4 C
Q14	F-2 C	RV7	G-4 C
Q15	G-1 C	RV8	K-1 C
Q16	E-8 S	RV9	B-6 C
Q17	H-1 C	RV10	B-6 C
Q18	H-2 C	RV11	G-6 C
Q19	H-2 S	RV12	K-1 C
Q20	H-2 S	RV13	I-8 C
Q21	I-1 S	RV14	I-8 C
Q22	I-2 S	RV15	J-8 C
Q23	I-2 S	RV16	K-8 C
Q24	I-2 S	RV17	E-3 C
Q25	I-2 C	RV18	E-5 C
Q26	I-1 C	RV19	E-7 C
Q27	K-2 S	TP1	A-3 C
Q28	D-2 C	TP2	D-1 C
Q29	A-4 S	TP3	G-2 C
Q30	A-3 S	TP4	L-2 C
Q31	B-4 S	TP5	A-5 C
Q32	B-4 C	TP6	A-5 S
Q33	C-4 S	TP7	D-3 C
Q34	C-4 S	TP8	G-4 C
Q35	D-4 S	TP9	J-3 S
Q37	D-3 S	TP10	A-7 C
Q38	D-4 S	TP11	A-7 S
Q39	E-4 S	TP12	D-5 C
Q40	E-4 S		D-5 S
Q41	F-4 C		G-6 C
Q42	F-4 C		G-6 S
Q43	G-3 C		J-5 C
Q44	H-3 C		J-5 S
Q45	H-4 C		
Q46	H-4 S		
Q47	H-4 S		
Q48	I-3 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE

6-7 (a)



VA-46 - COMPONENT SIDE -
1-625-397-12
DXC-M7 (J, UC)



VA-46 - SOLDER SIDE -
1-625-397-12
DXC-M7 (J, UC)

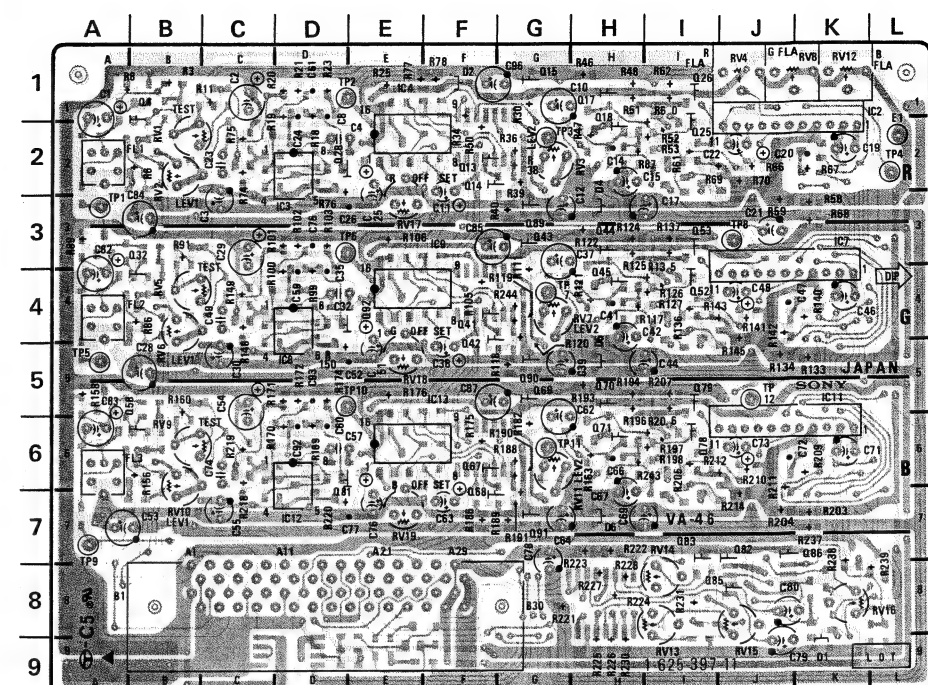
VA-46 (1-625-397-11)

CN1	D-7 S	Q52	I-4 C
D1	K-9 C	Q53	I-3 C
D2	F-1 C	Q54	J-4 S
D3	J-9 S	Q55	A-6 S
D4	H-2 C	Q56	A-5 S
D5	H-5 C	Q57	B-6 S
D6	H-7 C	Q58	A-5 C
E1	L-1 C	Q59	B-5 C
	L-2 S	Q60	C-7 S
FL1	B-2 C	Q61	C-6 S
FL2	B-4 C	Q62	D-7 S
FL3	B-6 C	Q63	D-5 S
IC1	F-1 S	Q64	D-7 S
IC2	L-1 C	Q65	E-6 S
	L-1 S	Q66	E-6 S
IC3	D-3 C	Q67	F-6 C
IC4	E-1 C	Q68	F-7 C
IC5	C-9 S	Q69	G-5 C
IC6	F-3 S	Q70	H-5 C
IC7	K-3 C	Q71	H-6 C
	J-3 S	Q72	H-5 S
IC8	D-5 C	Q73	H-5 S
IC9	F-3 C	Q74	I-5 S
IC10	F-5 S	Q75	I-6 S
IC11	K-5 C	Q76	I-7 S
	J-6 S	Q77	I-7 S
IC12	D-7 C	Q78	I-6 C
IC13	F-5 C	Q79	I-5 C
IC14	H-7 S	Q80	J-6 S
IC15	J-7 S	Q81	D-7 C
		Q82	J-7 C
Q1	A-2 S	Q83	I-7 C
Q2	A-1 S	Q84	I-7 S
Q3	B-2 S	Q85	I-8 C
Q4	B-1 C	Q86	K-7 C
Q5	C-3 S	Q87	J-8 S
Q6	C-2 S	Q88	L-7 S
Q7	D-2 S	Q89	G-3 C
Q8	D-1 S	Q90	G-5 C
Q9	D-1 S	Q91	G-7 C
Q10	D-3 S	Q92	E-4 C
Q11	E-2 S	RV1	B-2 C
Q12	E-2 S	RV2	B-2 C
Q13	F-2 C	RV3	H-2 C
Q14	F-2 C	RV4	J-1 C
Q15	G-1 C	RV5	B-4 C
Q16	E-8 S	RV6	B-5 C
Q17	H-1 C	RV7	H-4 C
Q18	H-1 C	RV8	K-1 C
Q19	H-1 S	RV9	B-6 C
Q20	H-1 S	RV10	B-7 C
Q21	I-1 S	RV11	H-7 C
Q22	I-2 S	RV12	K-1 C
Q23	I-3 S	RV13	I-9 C
Q24	I-3 S	RV14	I-7 C
Q25	I-2 C	RV15	J-9 C
Q26	I-1 C	RV16	L-8 C
Q27	J-2 S	RV17	E-3 C
Q28	D-2 C	RV18	E-5 C
Q29	A-4 S	RV19	E-7 C
Q30	A-3 S	TP1	A-3 C
Q31	B-4 S	TP2	A-3 S
Q32	B-3 C	TP3	D-1 C
Q33	C-5 S	TP4	D-1 S
Q34	C-4 S	TP5	G-2 C
Q35	D-5 S	TP6	G-2 S
Q36	D-4 S	TP7	L-2 C
Q37	D-3 S	TP8	L-2 S
Q38	D-5 S	TP9	A-5 C
Q39	E-4 S	TP10	A-5 S
Q40	E-4 S	TP11	D-3 S
Q41	F-4 C	TP12	G-4 C
Q42	F-5 C		G-4 S
Q43	G-3 C		J-3 C
Q44	H-3 C		J-3 S
Q45	H-4 C		A-7 C
Q46	H-3 S		A-7 S
Q47	H-3 S		E-5 C
Q48	I-3 S		D-5 S
Q49	I-4 S		G-6 C
Q50	I-5 S		G-6 S
Q51	I-5 S		J-5 C
			J-5 S

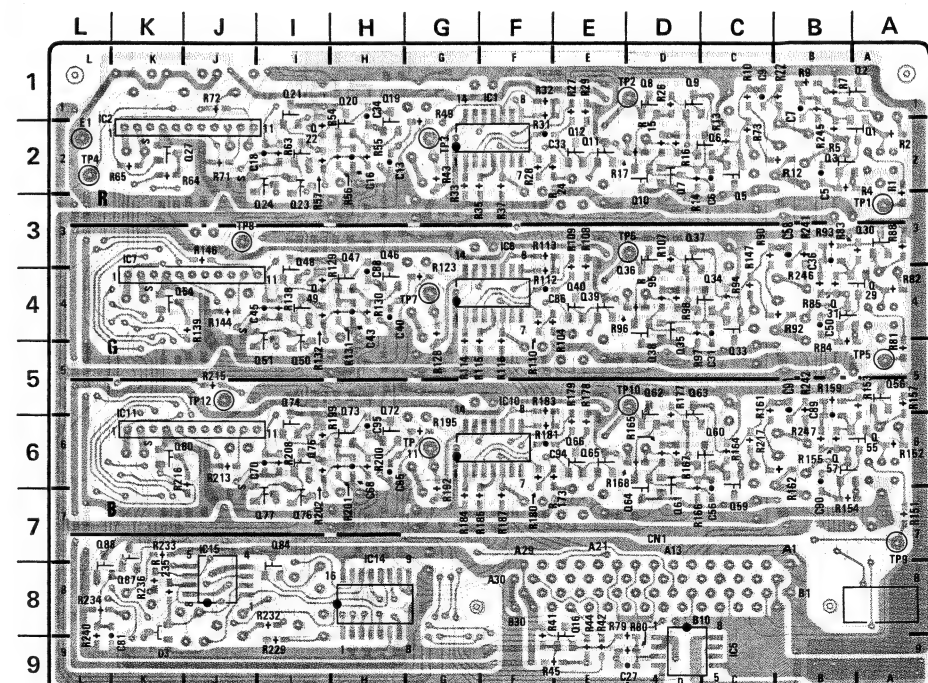
** C: COMPONENT SIDE
** S: SOLDERING SIDE

6-8 (a)

Ser.No.10001-10400 (UC)
30001-30350 (J)

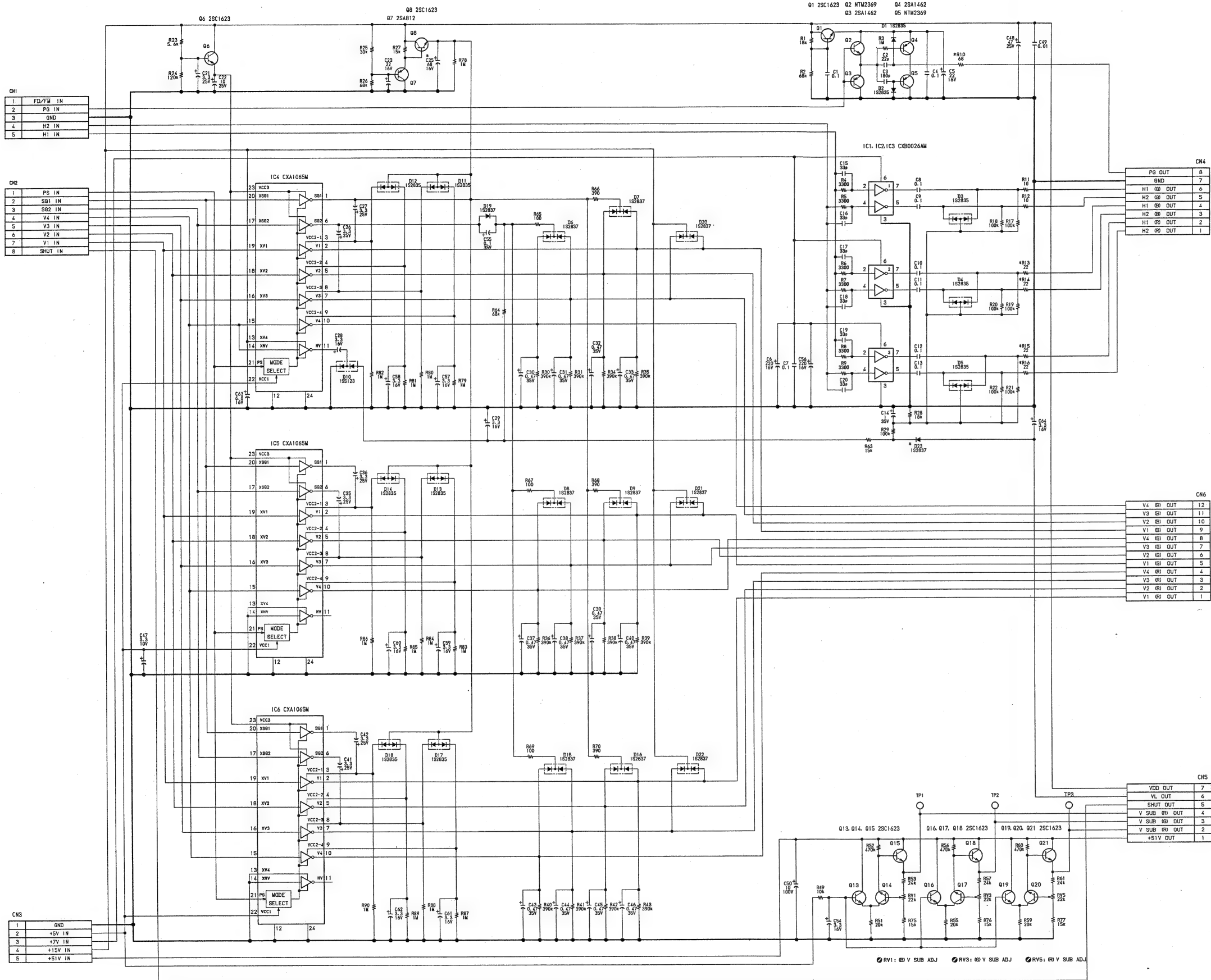


VA-46 - COMPONENT SIDE -
1-625-397-11
DXC-M7 (J, UC)



VA-46 - SOLDER SIDE -
1-625-397-11
DXC-M7 (J, UC)

DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



* CHANGE INFORMATION		
REF. NO.	DESCRIPTION	EFFECTIVE SER. NO.
D23	1S1555 → 1S2837	10251 - (UC) 30201 - (J) 40001 - (EK) 70001 - (BRZ)
R10 R13 R16	15 → 68 10 → 22	10701 - (UC) 30551 - (J) 40001 - (EK) 70001 - (BRZ)
C25	10/16V → 68/16V	11961 - (UC) 31201 - (J) 40601 - (EK) 70011 - (BRZ)

- DR-60 BOARD

S/N: 10001

— 13260 (UC)

30001

— 31420 (J)

40001

— 44060 (EK)

70001

— 70050 (BRZ)
- DR-60A BOARD

S/N: 13261

— (UC)

31421

— (J)

44061

— (EK)

70051

— (BRZ)



DR-60/60A BOARD (TIMING PULSE DRIVER)

DR-60 (1-625-452-12)

CN1 I-4 C
CN2 I-2 C
CN3 B-1 C
CN4 G-5 C
CN5 E-5 C
CN6 C-5 C

D1 H-5 S
D2 H-5 S
D3 H-3 S
D4 G-3 S
D5 G-3 S
D6 D-5 S
D7 D-4 S
D8 D-4 S
D9 C-4 S
D10 F-3 S
D11 E-3 S
D12 E-3 S
D13 D-3 S
D14 C-3 S
D15 B-4 S
D16 A-4 S
D17 B-3 S
D18 B-3 S
D19 E-5 S
D20 C-5 S
D21 B-5 S
D22 B-5 S
D23 F-5 S

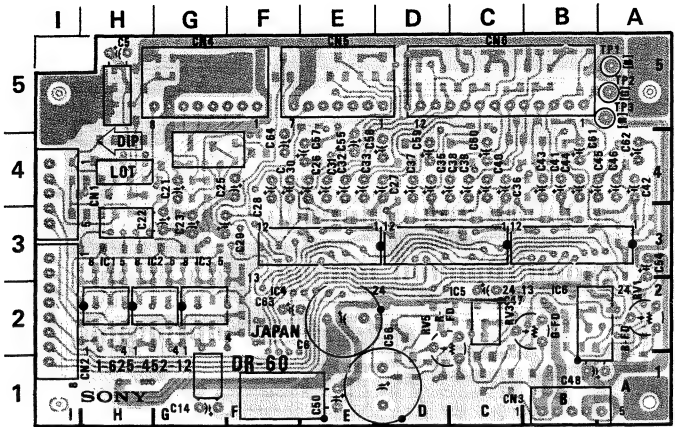
IC1 H-2 C
IC2 G-2 C
IC3 G-2 C
IC4 E-3 C
IC5 C-3 C
IC6 B-3 C

Q1 H-5 S
Q2 H-4 S
Q3 H-4 S
Q4 H-4 S
Q5 H-4 S
Q6 G-4 S
Q7 G-4 S
Q8 F-4 S
Q13 B-3 S
Q14 B-2 S
Q15 B-2 S
Q16 C-2 S
Q17 C-2 S
Q18 C-2 S
Q19 D-2 S
Q20 D-2 S
Q21 D-2 S

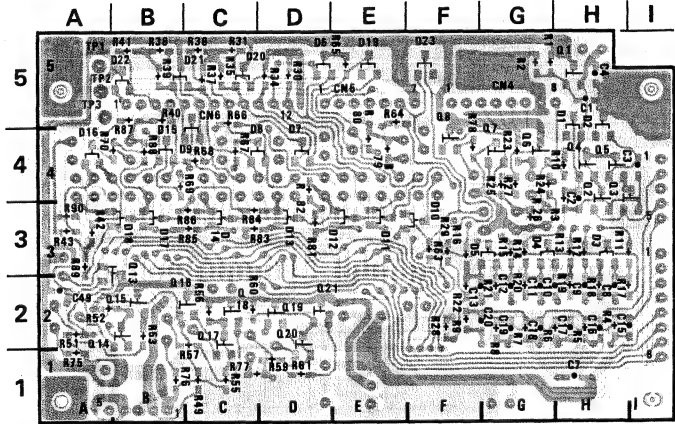
RV1 A-2 C
RV3 B-2 C
RV5 D-2 C

TP1 A-5 C
A-5 S
TP2 A-5 C
A-5 S
TP3 A-5 C
A-5 S

*-C: COMPONENT SIDE
*-S: SOLDER SIDE

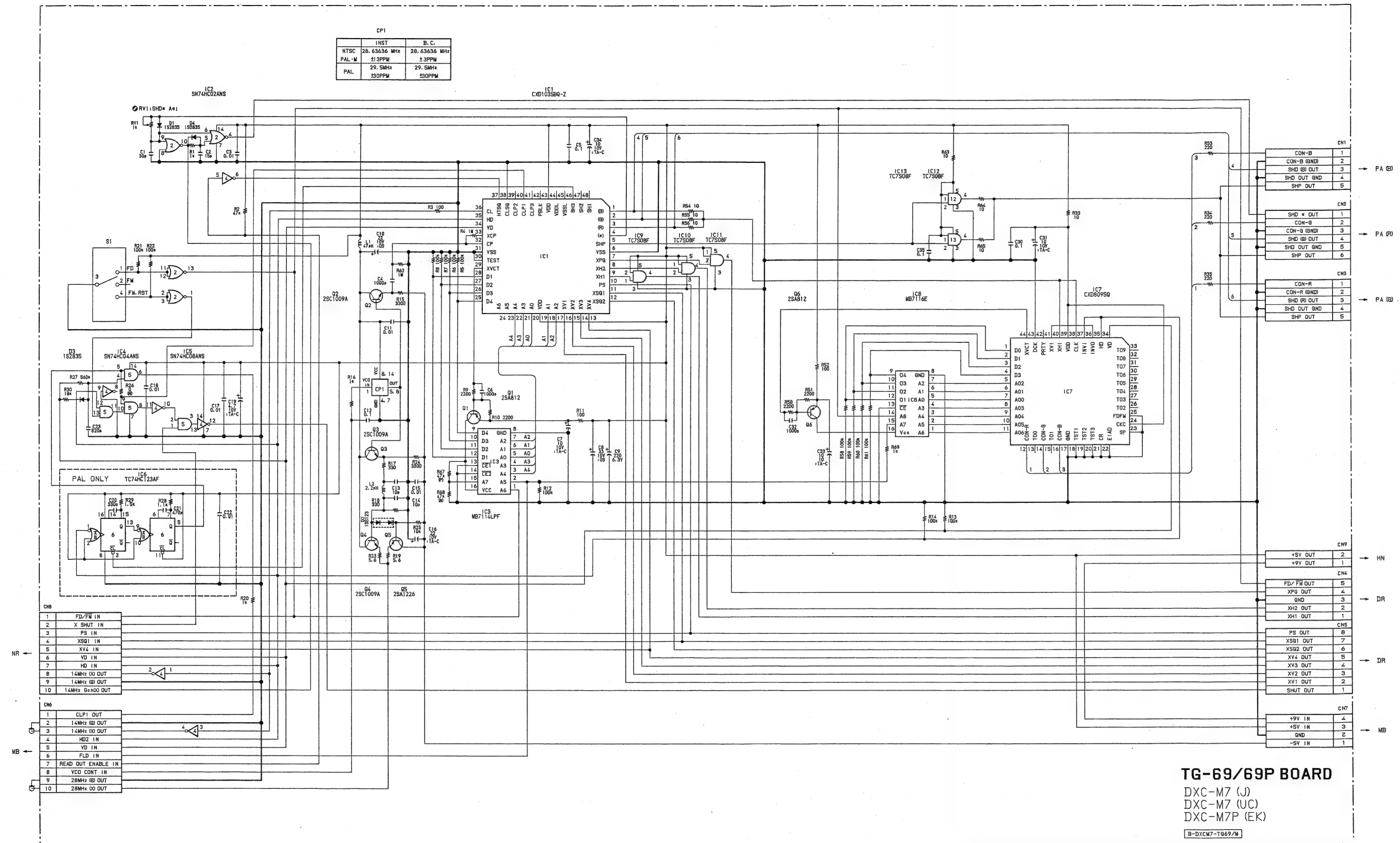


DR-60/60A - COMPONENT SIDE -
1-625-452-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



DR-60/60A - SOLDER SIDE -
1-625-452-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

Ser .No .13261- (UC)
31421- (J)
44061- (EK)



IXC-M7 (J) (UC)
IXC-M7P (EK)
IXC-M7PM (BRZ)

VA-46



VA-46

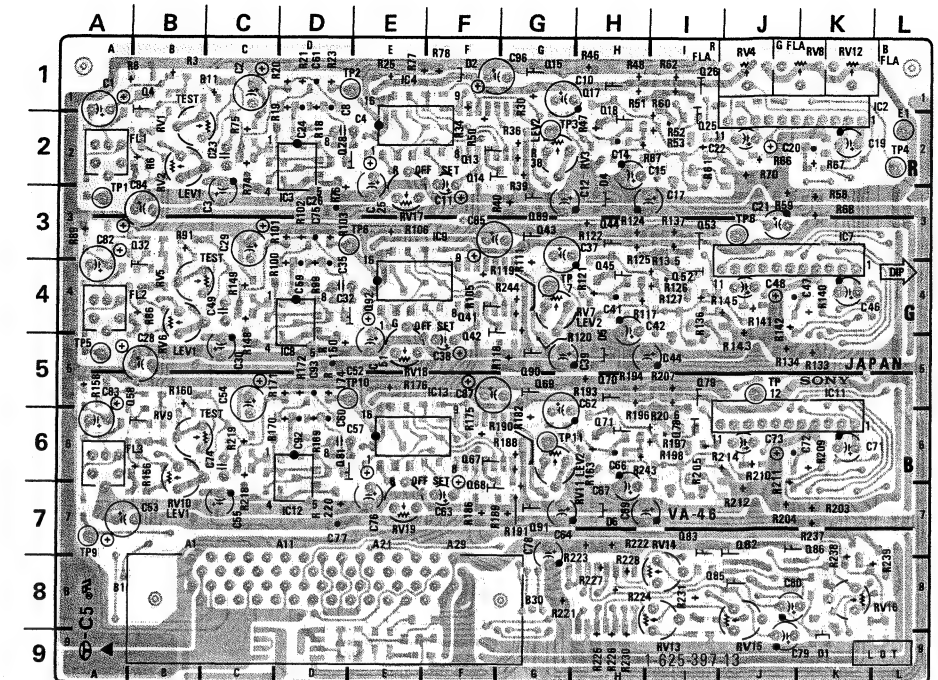
VA-46 BOARD (VIDEO AMPLIFIER)

Ser.No.11351- (UC)
 31201- (J)
 40001- (EK)
 70001- (BRZ)

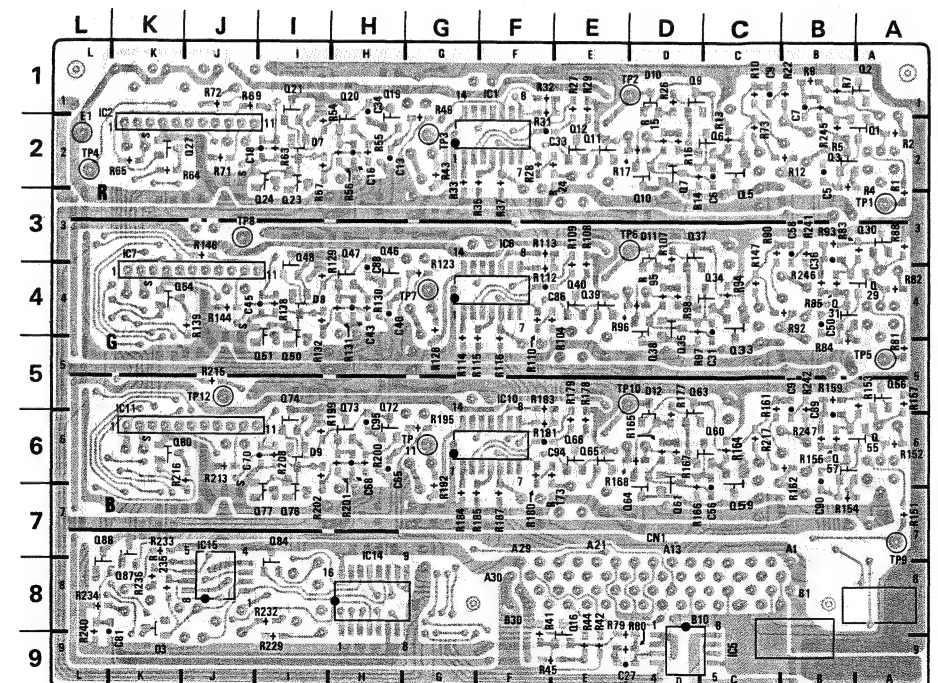
VA-46 (1-625-397-13)

CN1	D-7 S	Q50	I-5 S
D1	K-9 C	Q51	I-5 S
D2	F-1 C	Q52	I-4 C
D3	K-8 S	Q53	I-3 C
D4	H-3 C	Q54	K-4 S
D5	H-5 C	Q55	A-6 S
D6	H-7 C	Q56	A-5 S
D7	I-2 S	Q57	B-6 S
D8	I-4 S	Q58	B-6 C
D9	I-6 S	Q59	C-6 S
D10	D-1 S	Q60	C-6 S
D11	D-3 S	Q61	D-7 S
D12	D-6 S	Q62	D-5 S
		Q63	D-7 S
		Q64	E-6 S
E1	L-2 C	Q65	E-6 S
	L-2 S	Q66	F-6 C
		Q67	F-7 C
FL1	A-2 C	Q68	G-5 C
FL2	A-4 C	Q69	H-5 C
FL3	A-6 C	Q70	H-6 C
		Q71	H-6 S
IC1	F-2 S	Q72	H-6 S
IC2	J-1 C	Q73	I-6 S
	J-2 S	Q74	I-7 S
IC3	D-2 C	Q75	I-7 S
IC4	E-2 C	Q76	I-6 C
IC5	D-9 S	Q77	I-6 C
IC6	F-4 S	Q78	I-5 C
IC7	J-3 C	Q79	K-6 S
	J-4 S	Q80	D-6 C
IC8	D-4 C	Q81	J-7 C
IC9	E-4 C	Q82	I-7 C
IC10	F-6 S	Q83	I-8 C
IC11	J-6 C	Q84	J-8 C
	J-6 S	Q85	J-7 C
IC12	D-6 C	Q86	K-7 S
IC13	E-6 C	Q87	L-8 S
IC14	H-8 S	Q88	G-3 C
IC15	J-8 S	Q89	G-5 C
		Q90	G-7 C
		Q91	D-4 C
		Q92	
Q1	A-2 S	RV1	B-2 C
Q2	A-1 S	RV2	B-2 C
Q3	B-2 S	RV3	G-2 C
Q4	B-1 C	RV4	J-1 C
Q5	C-2 S	RV5	B-4 C
Q6	C-2 S	RV6	B-4 C
Q7	D-2 S	RV7	G-4 C
Q8	D-1 S	RV8	K-1 C
Q9	D-2 S	RV9	B-6 C
Q10	E-2 S	RV10	B-6 C
Q11	E-2 S	RV11	G-6 C
Q12	F-2 C	RV12	K-1 C
Q13	F-2 C	RV13	I-8 C
Q14	G-1 C	RV14	I-8 C
Q15	E-8 S	RV15	J-8 C
Q16	H-1 C	RV16	K-8 C
Q17	H-2 C	RV17	E-3 C
Q18	H-2 S	RV18	E-5 C
Q19	H-2 S	RV19	E-7 C
Q20	I-1 S		
Q21	I-2 S	TP1	A-3 C
Q22	I-2 S	TP2	A-3 S
Q23	I-2 C	TP3	D-1 C
Q24	I-1 C	TP4	D-1 S
Q25	K-2 S	TP5	G-2 C
Q26	K-2 C	TP6	L-2 C
Q27	D-2 C	TP7	A-5 C
Q28	A-4 S	TP8	A-5 S
Q29	B-4 S	TP9	D-3 C
Q30	B-4 C	TP10	D-3 S
Q31	C-4 S	TP11	G-4 C
Q32	C-4 S	TP12	J-3 S
Q33	C-4 S		A-7 C
Q34	D-4 S		D-5 C
Q35	D-4 S		G-6 C
Q36	D-4 S		J-5 S
Q37	D-4 S		
Q38	E-4 S		
Q39	F-4 C		
Q40	F-4 C		
Q41	G-3 C		
Q42	H-3 C		
Q43	H-4 S		
Q44	H-4 S		
Q45	H-4 S		
Q46	H-4 S		
Q47	H-4 S		
Q48	I-3 S		

** C: COMPONENT SIDE
 ** S: SOLDERING SIDE



VA-46 - COMPONENT SIDE -
 1-625-397-13
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)



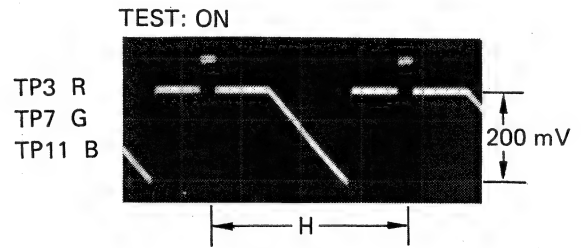
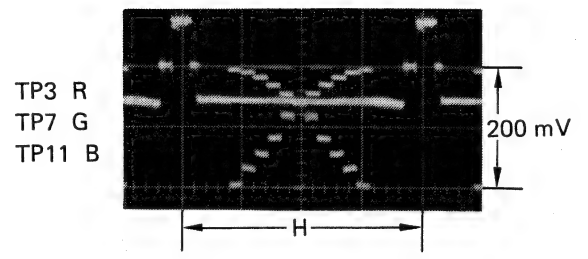
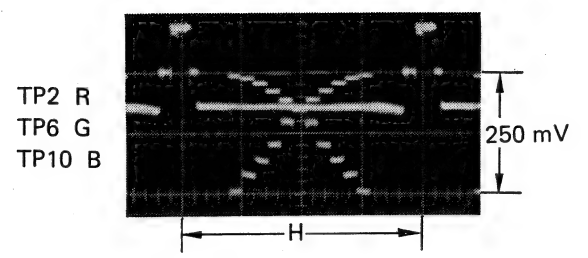
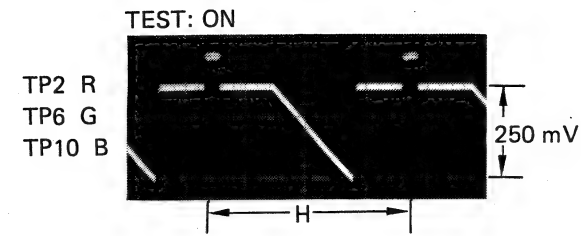
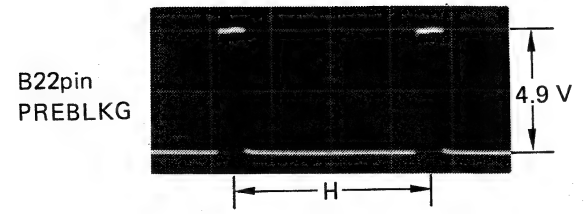
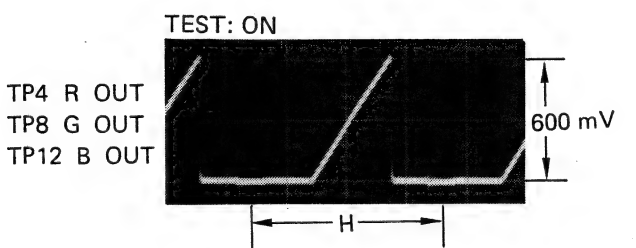
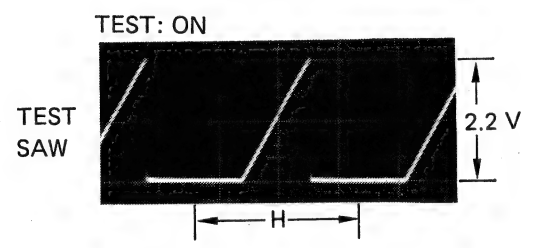
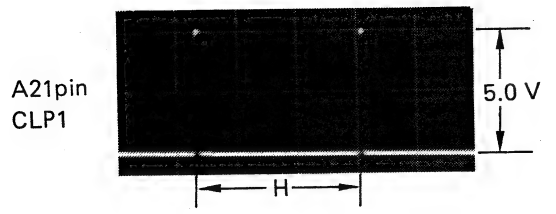
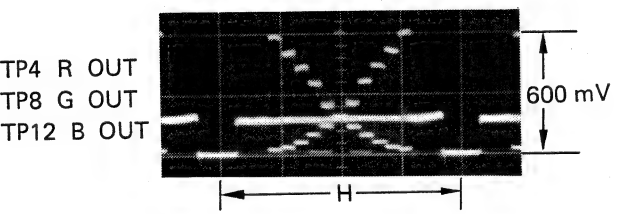
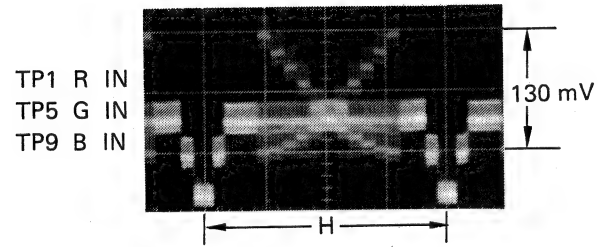
VA-46 - SOLDER SIDE -
 1-625-397-13
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

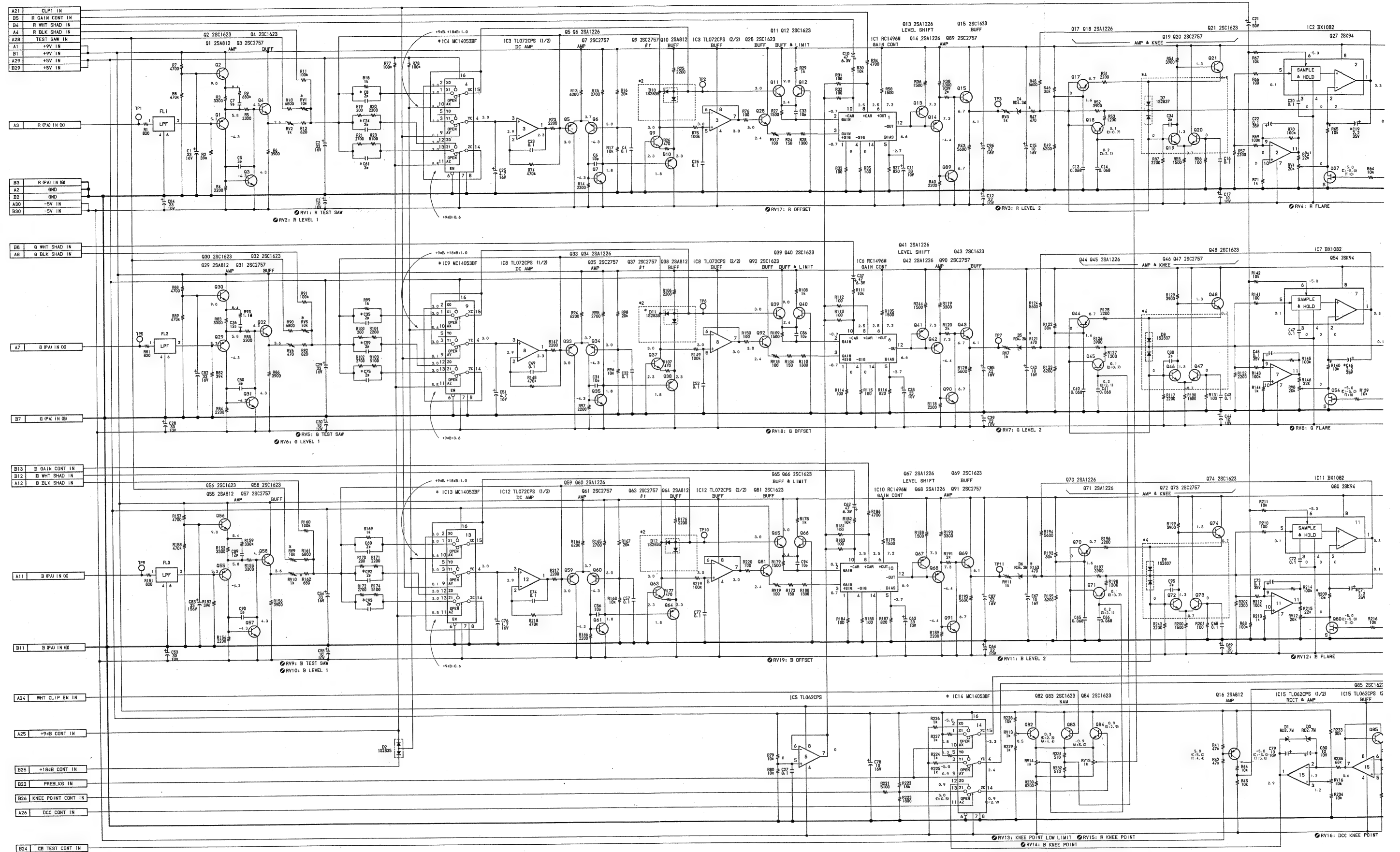
VA-46 回路図

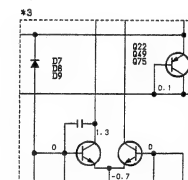
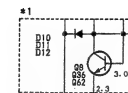
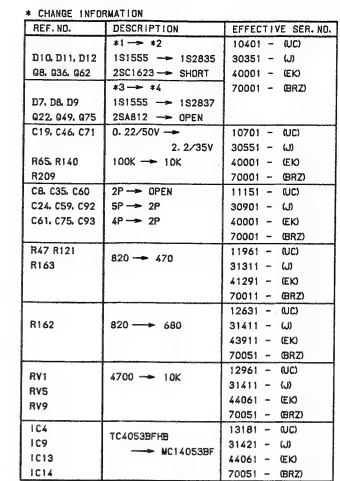
- 注意:
- DC 電圧はデジタル電圧計 (入力インピーダンス 10 MΩ) による値。
 - 波形写真及び DC 電圧は下記条件で測定。
 - FILTER 切り換えつまみ → 1 位置
 - OUTPUT スイッチ → CAM/DCC OFF 位置
 - GAIN 切り換えスイッチ → 0 dB 位置
 - WHT BAL スイッチ → PRESET 位置
 - S2 **TEST** / AT-46 基板 → OFF 位置
 - グレースケールチャートを撮像し、波形モニターにて、ビデオ出力の白レベルが 100 IRE になる様に、レンズ絞りをセットする。

VA-46

- NOTE:
- All voltage are dc, measured with a digital voltmeter. (input impedance: 10MΩ)
 - All waveforms are taken and DC voltage is measured in condition below.
 - Set camera FILTER selector to 1 position.
 - Set camera OUTPUT selector to CAM/DCC OFF position.
 - Set camera GAIN selector to 0dB position.
 - Set camera WHT BAL selector to PRESET position.
 - Set camera S2 **TEST** /AT-46 board to OFF position.
 - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.







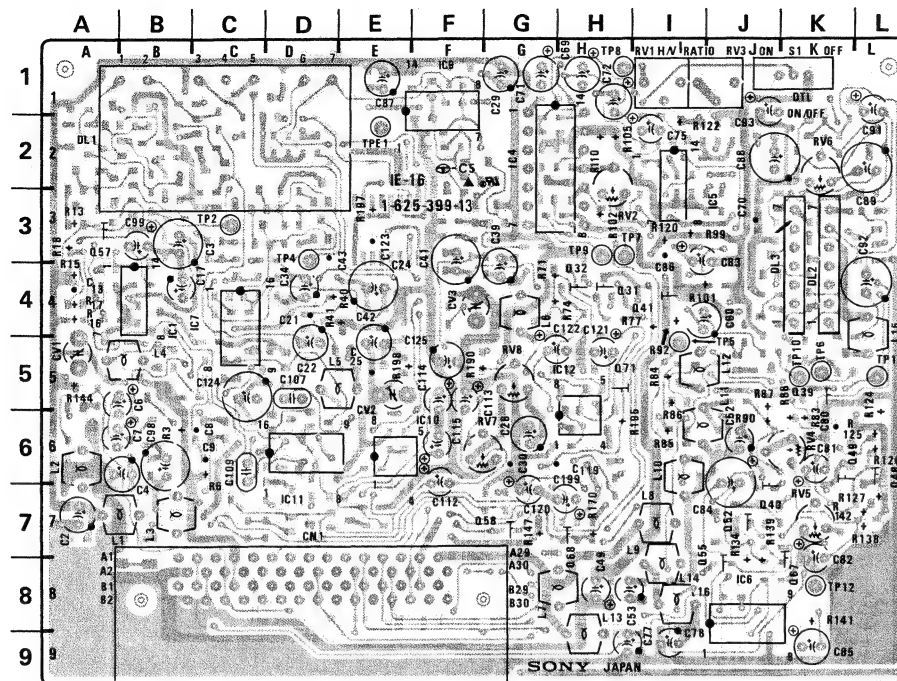
IE-16 BOARD (IMAGE ENHANCER)

Ser.No.11351-11610 (UC)

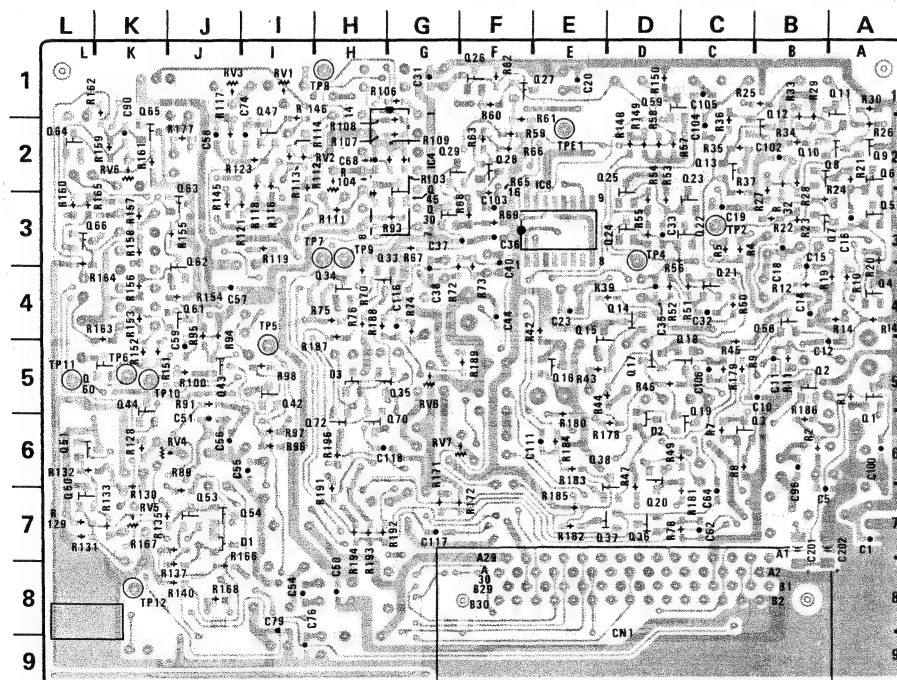
IE-16 (1-625-399-13)

CN1	D-8 C	Q61	J-4 S
	D-8 S	Q62	J-4 S
		Q63	J-3 S
CV1	A-5 C	Q64	L-2 S
CV2	E-5 C	Q65	K-2 S
CV3	F-4 C	Q66	L-3 S
		Q67	K-8 C
D1	J-7 S	Q68	H-7 C
D2	D-6 S	Q70	H-6 S
D3	H-5 S	Q71	H-5 C
		Q72	H-6 S
DL1	C-2 C	RV1	I-1 C
DL2	K-4 C	RV2	H-3 C
DL3	K-4 C	RV3	J-1 C
		RV4	K-6 C
IC1	B-4 C	RV5	K-7 C
IC4	G-2 C	RV6	K-2 C
		RV7	K-2 S
IC5	I-3 C	RV8	G-6 S
IC6	J-8 C		G-5 S
IC7	C-4 C		
IC8	E-3 S		
IC9	F-1 C		
IC10	E-6 C		
IC11	D-6 C		
IC12	H-6 C		
Q1	A-5 S	SI	K-1 C
Q2	B-5 S		
Q3	C-6 S	TP2	C-3 C
Q4	A-4 S		C-3 S
Q5	A-3 S	TP4	D-4 C
Q6	A-2 S		D-4 S
Q7	B-3 S	TP5	I-5 C
Q8	A-2 S		I-5 S
Q9	A-2 S	TP6	K-5 C
Q10	B-2 S		K-5 S
Q11	A-1 S	TP7	H-3 C
Q12	B-2 S		H-3 S
Q13	C-2 S	TP8	H-1 C
Q14	D-4 S		H-1 S
Q15	E-5 S	TP9	H-3 C
Q16	E-5 S		H-3 S
Q17	D-5 S	TP10	K-5 C
Q18	C-5 S		K-5 S
Q19	C-6 S	TP11	L-5 C
Q20	D-6 S		L-5 S
Q21	C-4 S	TP12	K-8 C
Q22	C-3 S		K-8 S
Q23	C-3 S		
Q24	D-3 S		
Q25	D-3 S		
Q26	F-1 S	TPE1	E-2 C
Q27	F-1 S		E-2 S
Q28	F-2 S		
Q29	G-2 S		
Q30	G-3 S		
Q31	H-4 C		
Q32	H-4 C		
Q33	H-4 S		
Q34	H-4 S		
Q35	H-5 S		
Q36	D-7 S		
Q37	E-7 S		
Q38	E-7 S		
Q39	K-5 C		
Q40	J-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-6 S		
Q45	G-3 S		
Q47	I-2 S		
Q48	L-6 C		
Q49	K-6 C		
Q50	L-7 S		
Q51	L-6 S		
Q52	J-7 C		
Q53	J-7 S		
Q54	J-7 S		
Q55	J-8 C		
Q56	B-4 S		
Q57	A-3 C		
Q58	G-7 C		
Q59	D-1 S		
Q60	K-5 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE



IE-16 - COMPONENT SIDE -
1-625-399-13
DXC-M7 (J, UC)



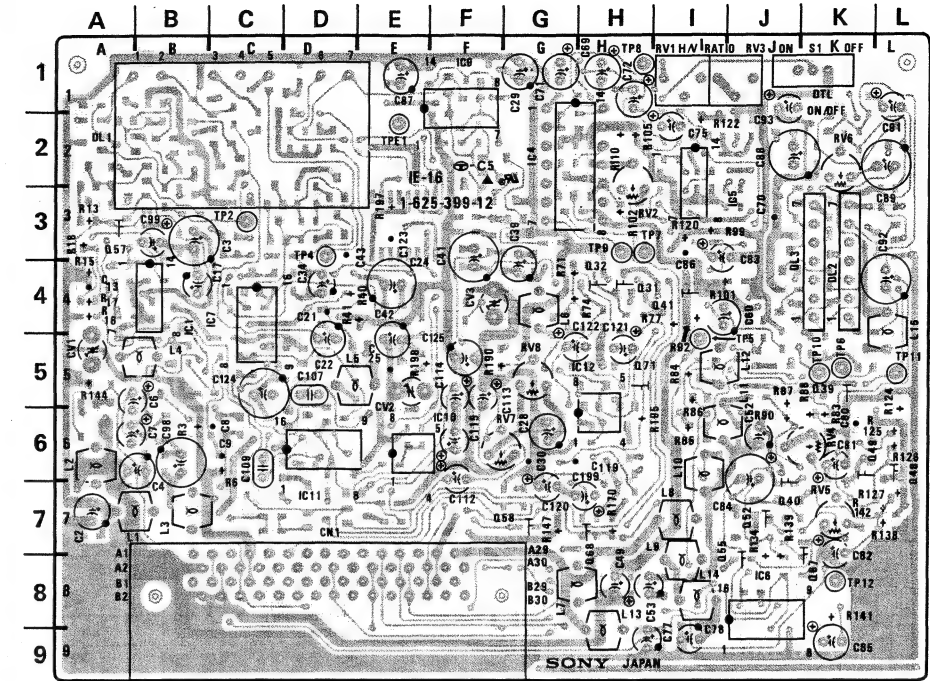
IE-16 - SOLDER SIDE -
1-625-399-13
DXC-M7 (J, UC)

Ser.No.10401-11350 (UC)
30351-31200 (J)

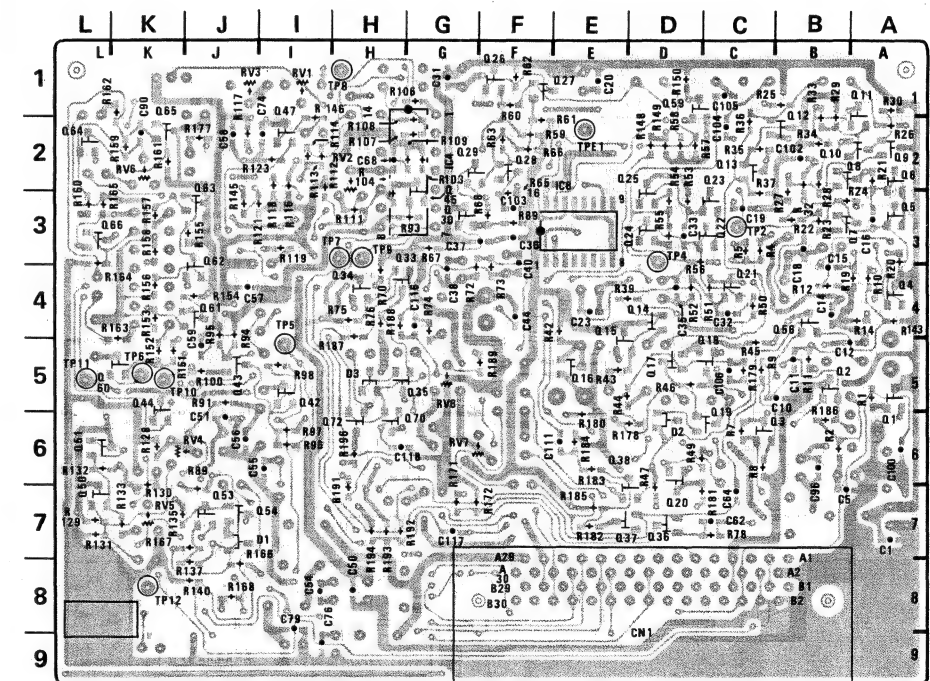
IE-16 (1-625-399-12)

CN1	D-8 C	Q60	K-5 S
		Q61	J-4 S
CV1	A-5 C	Q62	J-4 S
CV2	E-5 C	Q63	J-3 S
CV3	F-4 C	Q64	L-2 S
		Q65	K-2 S
D1	J-7 S	Q66	L-3 S
D2	D-6 S	Q67	K-8 C
D3	H-5 S	Q68	H-7 C
		Q69	B-7 C
DL1	A-2 C	Q70	H-6 S
DL2	K-4 C	Q71	H-5 C
DL3	K-4 C	Q72	H-6 S
IC1	B-4 C	RV1	I-1 C
IC2	F-6 C		I-1 S
IC3	D-7 C	RV2	H-3 C
IC4	G-2 C		H-2 S
		RV3	J-1 C
IC5	I-3 C		J-1 S
IC6	J-8 C	RV4	K-6 C
IC7	C-4 C		K-6 S
IC8	E-3 S	RV5	K-7 C
IC9	F-1 C		K-7 S
IC10	E-6 C	RV6	K-2 C
IC11	D-6 C		K-2 S
IC12	H-6 C	RV7	G-6 C
			G-6 S
Q1	A-5 S	RV8	G-5 C
Q2	B-5 S		G-5 S
Q3	C-6 S		
Q4	A-4 S		
Q5	A-3 S	SI	K-1 C
Q6	A-2 S		
Q7	B-3 S	TP1	H-3 C
Q8	A-2 S		H-4 S
Q9	A-2 S	TP2	C-3 C
Q10	B-2 S		C-3 S
Q11	A-1 S	TP3	H-7 C
Q12	B-2 S		H-7 S
Q13	C-2 S	TP4	D-4 C
Q14	D-4 S		D-4 S
Q15	E-5 S	TP5	I-5 C
Q16	E-5 S		I-5 S
Q17	D-5 S	TP6	K-5 C
Q18	C-5 S		K-5 S
Q19	C-6 S	TP7	H-3 C
Q20	D-6 S		H-3 S
Q21	C-4 S	TP8	H-1 C
Q22	C-3 S		H-1 S
Q23	C-3 S	TP9	H-3 C
Q24	D-3 S		H-3 S
Q25	D-3 S	TP10	K-5 C
Q26	F-1 S		K-5 S
Q27	F-1 S	TP11	L-5 C
Q28	F-2 S		L-5 S
Q29	G-2 S	TP12	K-8 C
Q30	G-3 S		K-8 S
Q31	H-4 C		
Q32	H-4 C		
Q33	H-4 S		
Q34	H-4 S		
Q35	H-5 C		
Q36	D-7 S		
Q37	E-7 S		
Q38	E-7 S		
Q39	K-5 C		
Q40	K-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-6 S		
Q45	G-3 S		
Q47	I-2 S		
Q48	L-6 C		
Q49	K-6 C		
Q50	L-7 S		
Q51	L-6 S		
Q52	J-7 C		
Q53	J-7 S		
Q54	J-7 S		
Q55	J-7 C		
Q56	B-4 S		
Q57	A-3 C		
Q58	G-7 C		
Q59	D-1 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE



IE-16 - COMPONENT SIDE -
1-625-399-12
DXC-M7 (J, UC)



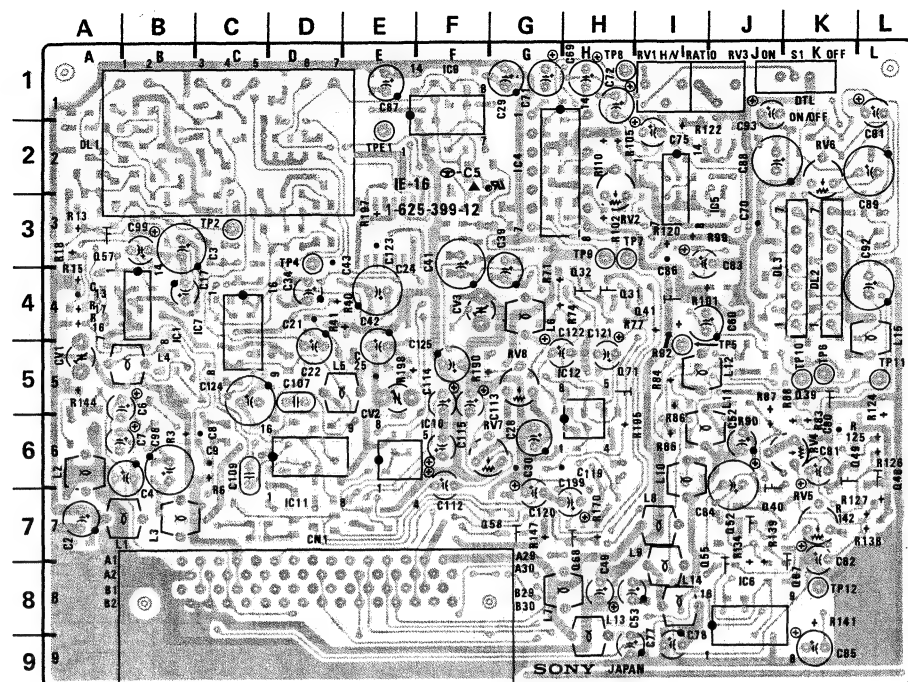
IE-16 - SOLDER SIDE -
1-625-399-12
DXC-M7 (J, UC)

IE-16 (1

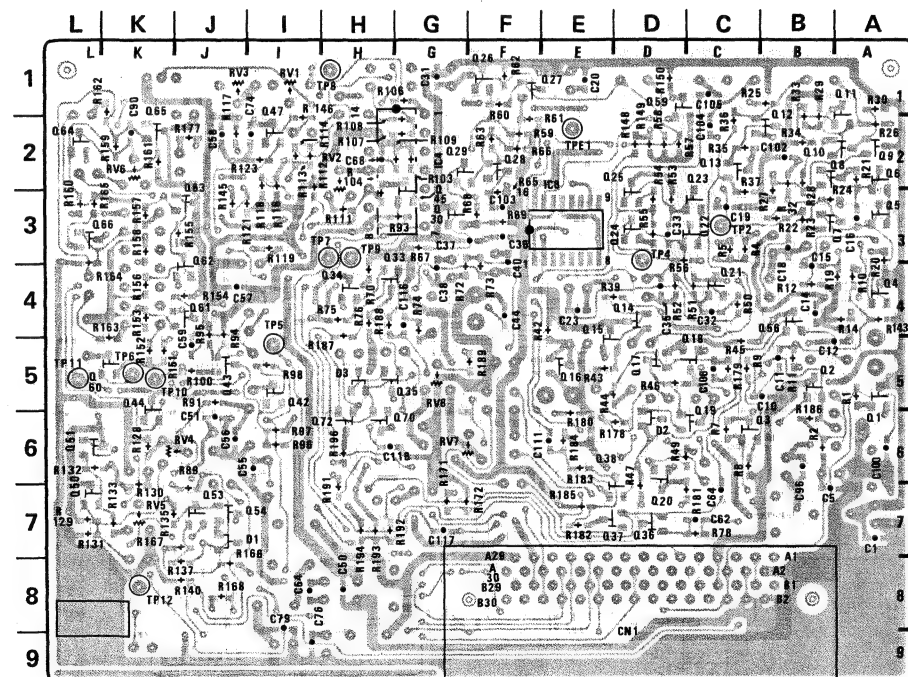
CN1	D-8 C	Q60	K-5 S
	D-8 S	Q61	J-4 S
CV1	A-5 C	Q62	J-4 S
CV2	E-5 C	Q63	J-3 S
CV3	F-4 C	Q64	L-2 S
		Q65	K-2 S
D1	J-7 S	Q66	L-3 S
		Q67	K-8 C
DL1	A-2 C	Q68	H-7 C
DL2	K-4 C	Q69	B-7 C
DL3	K-4 C	Q70	H-6 S
		Q71	H-5 C
		Q72	H-6 S
IC1	B-4 C	RV1	I-1 C
IC2	F-6 C		I-1 S
IC3	D-7 C	RV2	H-3 C
IC4	G-2 C		H-2 S
		RV3	J-1 C
IC5	I-3 C		J-1 S
IC6	J-8 C	RV4	K-6 C
IC7	C-4 C		K-6 S
IC8	E-3 S	RV5	K-7 C
IC9	F-1 C		K-7 S
		RV6	K-2 C
Q1	A-5 S		K-2 S
Q2	B-5 S	RV7	G-6 C
Q3	C-6 S		G-6 S
Q4	A-4 S	RV8	G-5 C
Q5	A-3 S		G-5 S
Q6	A-2 S		
Q7	B-3 S	SI	K-1 C
Q8	A-2 S		
Q9	A-2 S	TP1	H-3 C
Q10	B-2 S		H-4 S
Q11	A-1 S	TP2	C-3 C
Q12	B-2 S		C-3 S
Q13	C-2 S	TP3	H-7 C
Q14	D-4 S		H-7 S
Q15	E-5 S	TP4	D-4 C
Q16	E-5 S		D-4 S
Q17	D-5 S	TP5	I-5 C
Q18	C-5 S		I-5 S
Q19	C-6 S	TP6	K-5 C
Q20	D-6 S		K-5 S
Q21	C-4 S	TP7	H-3 C
Q22	C-3 S		H-3 S
Q23	C-3 S	TP8	H-1 C
Q24	D-3 S		H-1 S
Q25	D-3 S	TP9	H-3 C
Q26	F-1 S		H-3 S
Q27	F-1 S	TP10	K-5 C
Q28	F-2 S		K-5 S
Q29	G-2 S	TP11	L-5 C
Q30	G-3 S		L-5 S
Q31	H-4 C	TP12	K-8 C
Q32	H-4 C		K-8 S
Q33	H-4 S		
Q34	H-4 S		
Q35	H-5 C		
Q36	D-7 S		
Q37	E-7 S		
Q38	E-7 S		
Q39	K-5 C		
Q40	K-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-6 S		
Q45	G-3 S		
Q47	I-2 S		
Q48	L-6 C		
Q49	K-6 C		
Q50	L-7 S		
Q51	L-6 S		
Q52	J-7 C		
Q53	J-7 S		
Q54	J-7 S		
Q55	J-7 C		
Q56	B-4 S		
Q57	A-3 C		
Q58	G-7 C		
Q59	D-1 S		
Q60	K-5 S		

** C:
** S:

Ser.No.10401-11350 (UC)
30351-31200 (J)



IE-16 - COMPONENT SIDE -
1-625-399-12
DXC-M7 (J, UC)



IE-16 - SOLDER SIDE -
1-625-399-12
DXC-M7 (J, UC)

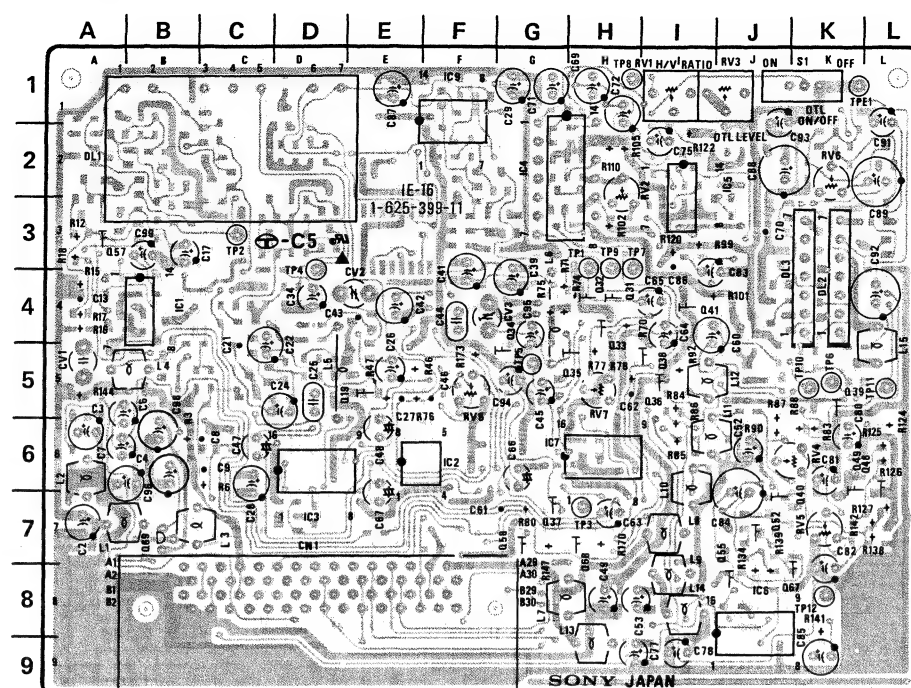
IE-16 (1-625-399-11)

CN1	D-7 C	Q64	L-2 S
CN1	D-8 S	Q65	K-1 S
CV1	A-5 C	Q66	K-3 S
CV2	E-4 C	Q67	K-8 C
CV3	G-4 C	Q68	H-7 C
		Q69	B-7 C
			B-7 S
D1	I-7 S	RV1	I-1 C
			I-1 S
DL1	A-2 C	RV2	I-2 C
DL2	K-4 C		H-2 C
DL3	K-4 C	RV3	J-1 C
			J-1 S
IC1	B-4 C	RV4	K-6 C
IC2	F-6 C		J-6 S
IC3	D-7 C	RV5	K-7 C
IC4	G-2 C		K-7 S
	G-2 S	RV6	K-2 C
IC5	J-2 C		K-3 S
IC6	J-8 C	RV7	H-5 C
IC7	G-6 C		H-5 S
IC8	E-2 S	RV8	F-6 C
IC9	F-1 C		F-5 S

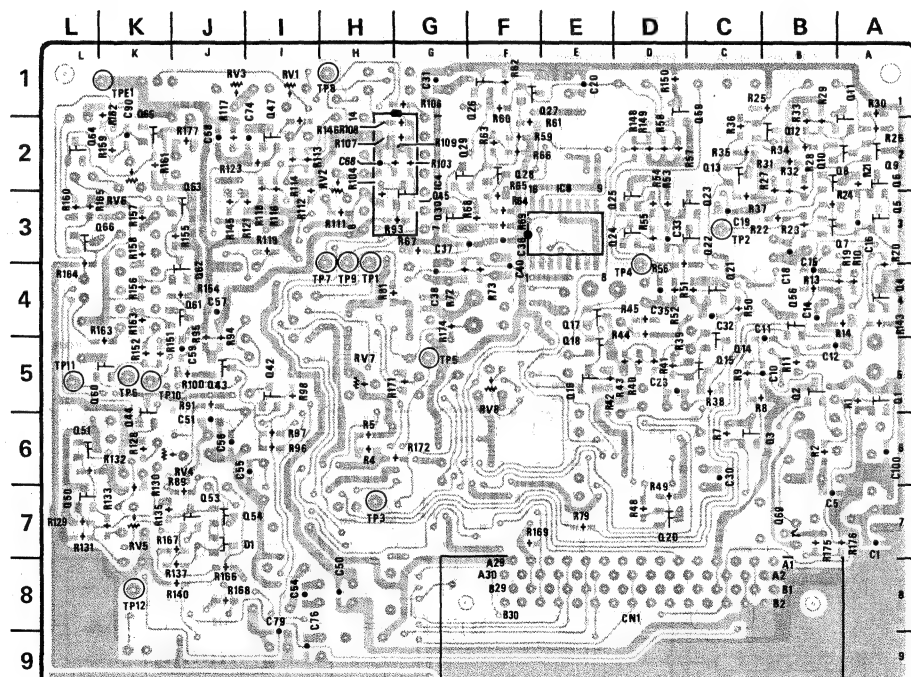
Q1	A-5 S	TP1	H-3 C
Q2	B-5 S		H-4 S
Q3	B-6 S	TP2	C-3 C
Q4	A-4 S		C-3 S
Q5	A-3 S	TP3	H-7 C
Q6	A-2 S		H-7 S
Q7	A-3 S	TP4	D-4 C
Q8	A-2 S		D-4 S
Q9	A-2 S	TP5	G-5 C
Q10	B-2 S		G-5 S
Q11	A-1 S	TP6	K-5 C
Q12	B-2 S		K-5 S
Q13	C-2 S	TP7	H-3 C
Q14	C-5 S		H-4 S
Q15	C-5 S	TP8	H-1 C
Q16	E-5 S		H-1 S
Q17	E-4 S	TP9	H-3 C
Q18	E-5 S		H-4 S
Q19	D-5 C	TP10	K-5 C
Q20	D-7 S		K-5 S
Q21	C-4 S	TP11	L-5 C
Q22	C-3 S		L-5 S
Q23	C-3 S	TP12	K-8 C
Q24	E-3 S		K-8 S
Q25	E-3 S		
Q26	F-1 S	TPE1	L-1 C
Q27	F-1 S		K-1 S
Q28	F-2 S		
Q29	G-2 S		
Q30	G-3 S		
Q31	H-4 C		
Q32	H-4 C		
Q33	H-5 C		
Q34	G-4 C		
Q35	H-5 C		
Q36	I-5 C		
Q37	G-7 C		
Q38	I-5 C		
Q39	K-5 C		
Q40	K-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-6 S		
Q45	G-3 S		
Q47	I-2 S		
Q48	L-6 C		
Q49	K-6 C		
Q50	L-7 S		
Q51	L-6 S		
Q52	J-7 C		
Q53	J-7 S		
Q54	I-7 S		
Q55	J-7 C		
Q56	B-4 S		
Q57	A-3 C		
Q58	G-7 C		
Q59	C-1 S		
Q60	L-5 S		
Q61	J-4 S		
Q62	J-4 S		
Q63	J-2 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE

Ser.No.10001-10400 (UC)
30001-30350 (J)



IE-16 - COMPONENT SIDE -
1-625-399-11
DXC-M7 (J, UC)



IE-16 - SOLDER SIDE -
1-625-399-11
DXC-M7 (J, UC)

125-399-12)

-8 C
-5 C
-5 C
-4 C
-7 S
-6 S
-5 S
-2 C
-4 C
-4 C
-4 C
-3 C
-8 C
-4 C
-3 S
-6 C
-6 C
-6 C
-5 S
-5 S
-6 S
-4 S
-3 S
-2 S
-3 S
-2 S
-2 S
-1 S
-2 S
-2 S
-4 S
-5 S
-5 S
-5 S
-6 S
-6 S
-6 S
-6 S
-7 S
-7 S
-5 C
-5 C
-7 C
-7 C
-7 C
-7 C
-4 C
-4 C
-4 S
-3 C
-7 C
-1 S

Q60 K-5 S
Q61 J-4 S
Q62 J-4 S
Q63 J-3 S
Q64 L-2 S
Q65 K-2 S
Q66 L-3 S
Q67 K-8 C
Q68 H-7 C
Q69 B-7 C
Q70 H-6 S
Q71 H-5 C
Q72 H-6 S
RV1 I-1 C
RV2 H-3 C
RV3 J-1 C
RV4 K-6 C
RV5 K-6 S
RV6 K-7 C
RV7 G-6 C
RV8 G-5 C
S1 K-1 C
TP1 H-3 C
TP2 C-3 C
TP3 H-7 C
TP4 D-4 C
TP5 I-5 C
TP6 K-5 C
TP7 H-3 C
TP8 H-1 C
TP9 H-3 C
TP10 K-5 C
TP11 L-5 C
TP12 K-8 C
TPE1 E-2 C
E-2 S

COMPONENT SIDE
SOLDERING SIDE

DXC-M7 (J) (UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

PR-90 回路図

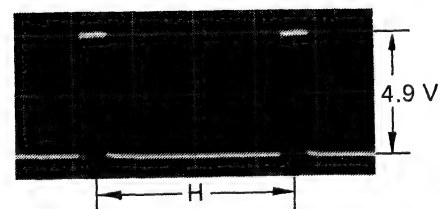
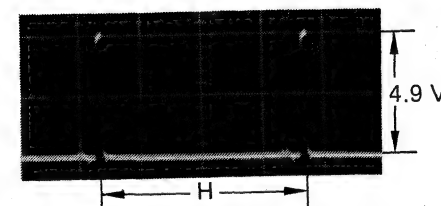
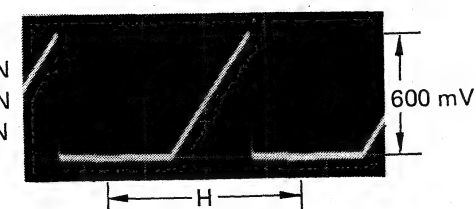
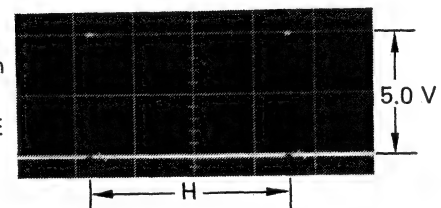
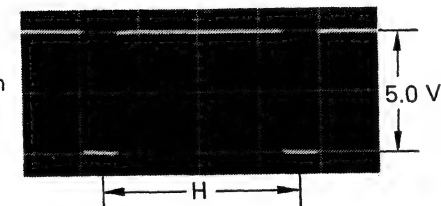
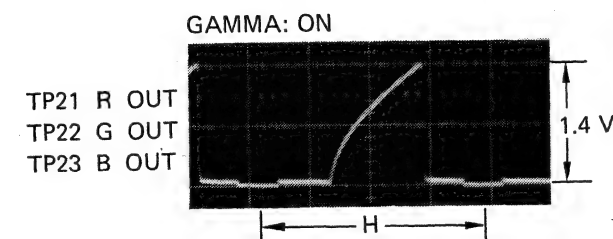
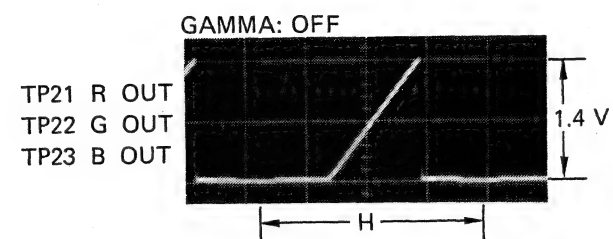
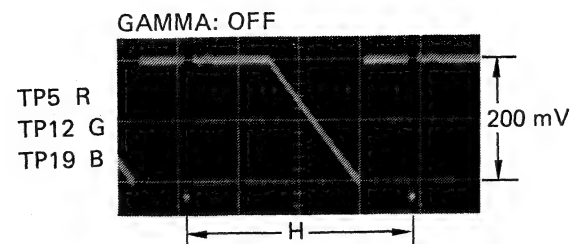
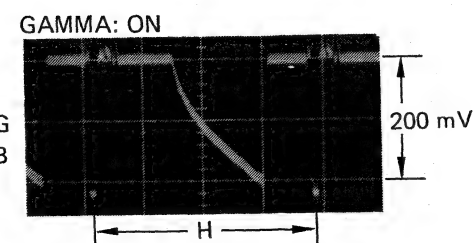
注意:

- DC 電圧はデジタル電圧計 (入力インピーダンス 10 M Ω) による値。
- 波形写真及び DC 電圧は下記条件で測定。
 - FILTER 切り換えつまみ \rightarrow 1 位置
 - OUTPUT スイッチ \rightarrow CAM/DCC OFF 位置
 - GAIN 切り換えスイッチ \rightarrow 0 dB 位置
 - WHT BAL スイッチ \rightarrow PRESET 位置
 - S2 **TEST** / AT-46 基板 \rightarrow ON 位置
 - S1 **MASK** / PR-90 基板 \rightarrow OFF 位置
 - S2 **GAMMA** / PR-90 基板 \rightarrow ON 位置
- () 内の DC 電圧は下記条件で測定。
 - OUTPUT スイッチ \rightarrow BARS/DCC OFF 位置

PR-90/90P

NOTE:

- All voltage are dc, measured with a digital voltmeter. (input impedance: 10M Ω)
- All waveforms are taken and DC voltage is measured in condition below.
 - Set camera FILTER selector to 1 position.
 - Set camera OUTPUT selector to CAM/DCC OFF position.
 - Set camera GAIN selector to 0dB position.
 - Set camera WHT BAL selector to PRESET position.
 - Set camera S2 **TEST** / AT-46 board to ON position.
 - Set camera S1 **MASK** / PR-90/90P board to OFF position.
 - Set camera S2 **GAMMA** / PR-90/90P board to ON position.
- DC voltage in parentheses () is measured in condition below.
 - Set camera OUTPUT selector to BARS/DCC OFF position.

B28pin
PREBLKGA14pin
CLAMP
PULSETP24 R IN
TP25 G IN
TP26 B INA13pin
REF
PULSEB24pin
BLKGTP5 R
TP12 G
TP19 B

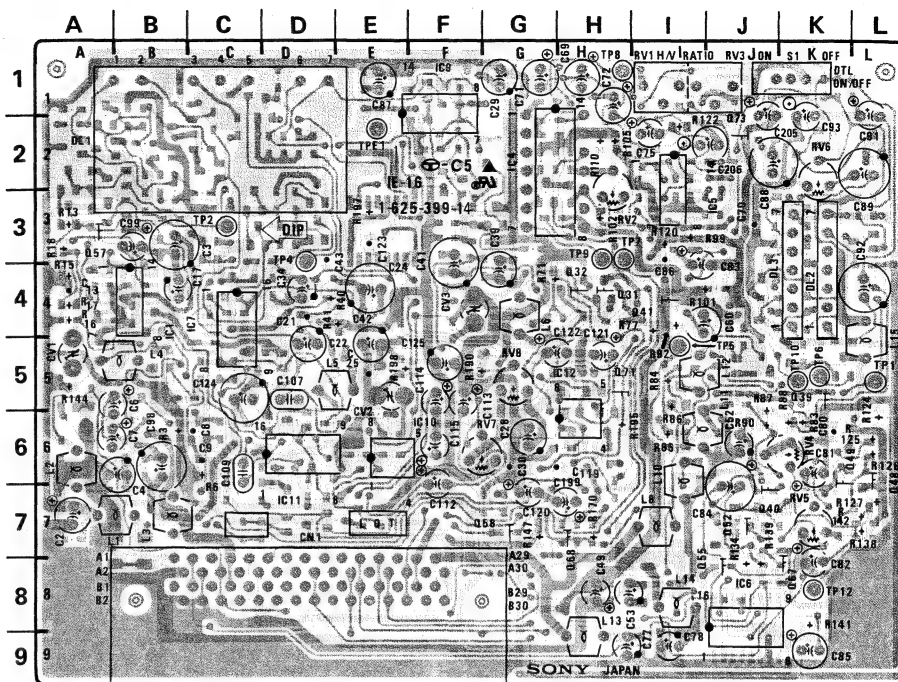
IE-16 BOARD (IMAGE ENHANCER)

Ser.No. 11611-12810 (UC)
 31201-31410 (J)
 40001-44010 (EK)
 70001-70050 (BRZ)

IE-16 (1-625-399-14)

CN1	D-8 C	Q61	J-4 S
	D-8 S	Q62	J-4 S
		Q63	J-3 S
CV1	A-5 C	Q64	L-2 S
CV2	E-5 C	Q65	K-2 S
CV3	F-4 C	Q66	L-3 S
		Q67	K-8 C
D1	J-7 S	Q68	H-7 C
D2	D-6 S	Q70	H-6 S
D3	H-5 S	Q71	H-5 C
		Q72	H-6 S
DL1	C-2 C	RV1	I-1 C
DL2	K-4 C		I-1 S
DL3	K-4 C	RV2	H-3 C
			H-2 S
IC1	B-4 C	RV3	J-1 C
IC4	G-2 C		J-1 S
	G-2 S	RV4	K-6 C
IC5	I-3 C		K-6 S
IC6	J-8 C	RV5	K-7 C
IC7	C-4 C		K-7 S
IC8	E-3 S	RV6	K-2 C
IC9	F-1 C		K-2 S
IC10	E-6 C	RV7	G-6 C
IC11	D-6 C		G-6 S
IC12	H-6 C	RV8	G-5 C
			G-5 S
Q1	A-5 S	S1	K-1 C
Q2	B-5 S		
Q3	C-6 S	TP2	C-3 C
Q4	A-4 S		C-3 S
Q5	A-3 S	TP4	D-4 C
Q6	A-2 S		D-4 S
Q7	B-3 S	TP5	I-5 C
Q8	A-2 S		I-5 S
Q9	A-2 S	TP6	K-5 C
Q10	B-2 S		K-5 S
Q11	A-1 S	TP7	H-3 C
Q12	B-2 S		H-3 S
Q13	C-2 S	TP8	H-1 C
Q14	D-4 S		H-1 S
Q15	E-5 S	TP9	H-3 C
Q16	E-5 S		H-3 S
Q17	D-5 S	TP10	K-5 C
Q18	C-5 S		K-5 S
Q19	C-6 S	TP11	L-5 C
Q20	D-6 S		L-5 S
Q21	C-4 S	TP12	K-8 C
Q22	C-3 S		K-8 S
Q23	C-3 S		
Q24	D-3 S	TPE1	E-2 C
Q25	D-3 S		E-2 S
Q26	F-1 S		
Q27	F-1 S		
Q28	F-2 S		
Q29	G-2 S		
Q30	G-3 S		
Q31	H-4 C		
Q32	H-4 C		
Q33	H-4 S		
Q34	H-4 S		
Q35	H-5 S		
Q36	D-7 S		
Q37	E-7 S		
Q38	E-7 S		
Q39	K-5 C		
Q40	J-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-6 S		
Q45	G-3 S		
Q47	I-2 S		
Q48	L-6 C		
Q49	K-6 C		
Q50	L-7 S		
Q51	L-6 S		
Q52	J-7 C		
Q53	J-7 S		
Q54	J-7 S		
Q55	J-8 C		
Q56	B-4 S		
Q57	A-3 C		
Q58	G-7 C		
Q59	D-1 S		
Q60	K-5 S		

*-C; COMPONENT SIDE
 *-S; SOLDERING SIDE



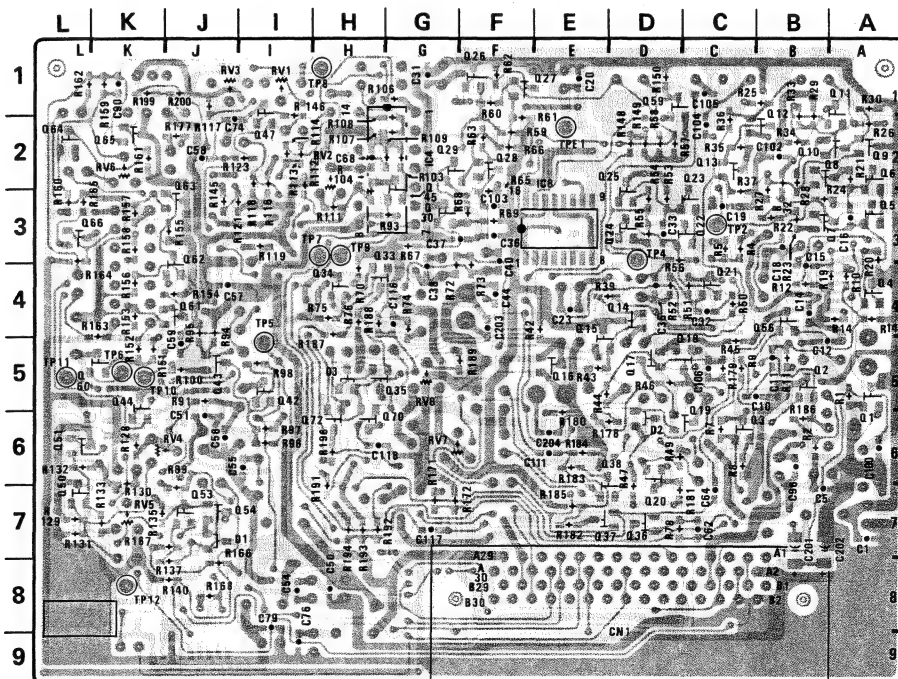
IE-16 -COMPONENT SIDE -

1-625-399-14

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)



IE-16 - SOLDER SIDE -

1-625-399-14

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)

IE-16

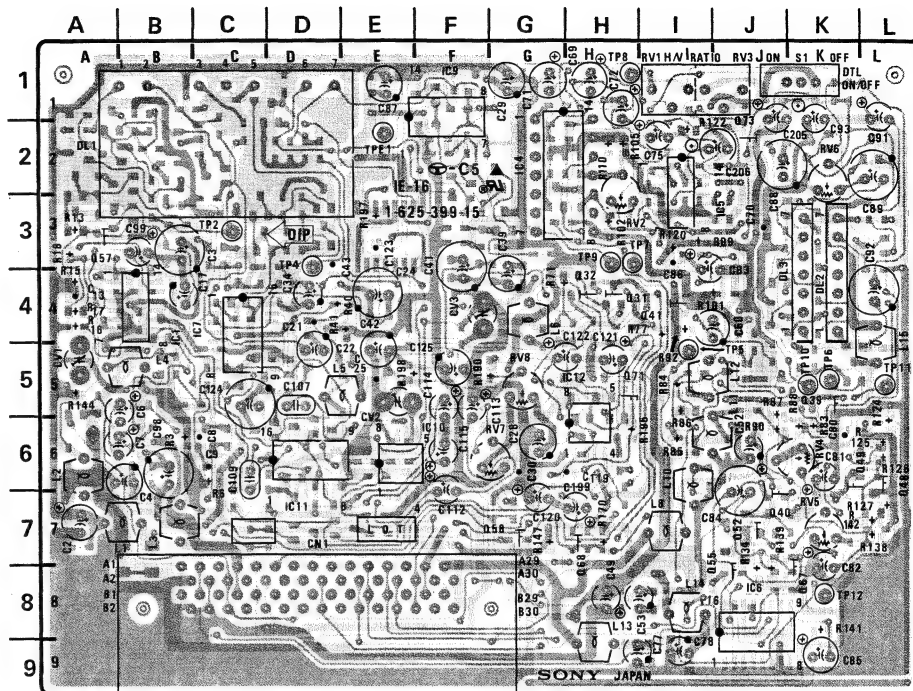
IE-16 BOARD (IMAGE ENHANCER)

Ser.No.12811- (UC)
31411- (J)
44011- (EK)

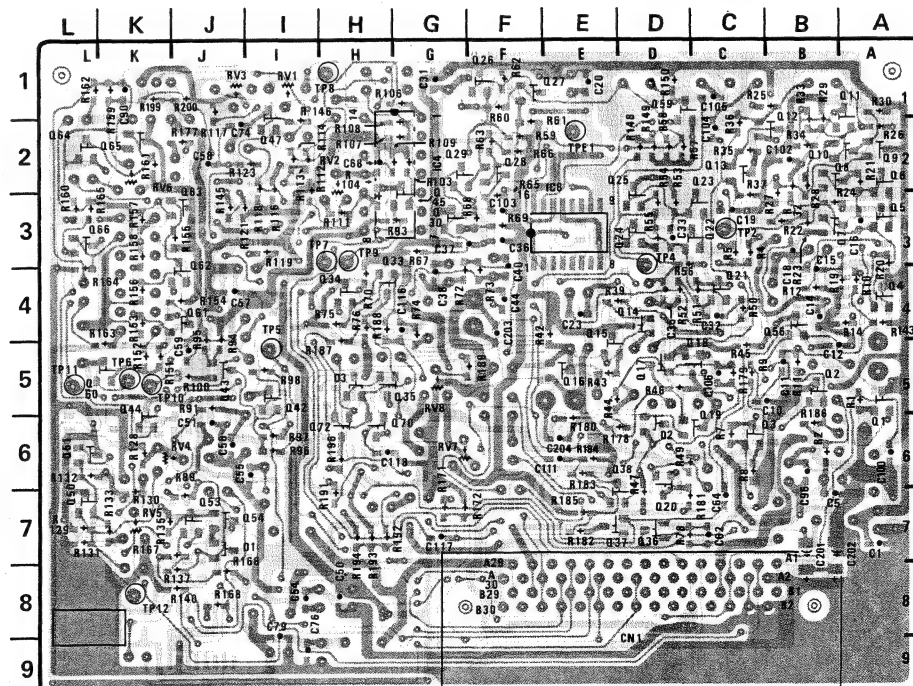
IE-16 (1-625-399-15)

CN1	D-7 C	Q56	B-4 S
CV1	A-5 C	Q57	A-3 C
CV2	E-6 C	Q58	G-7 C
CV3	F-3 C	Q59	D-1 S
		Q60	L-5 S
		Q61	J-4 S
DL1	A-2 C	Q62	J-3 S
DL2	K-4 C	Q63	J-2 S
DL3	J-4 C	Q64	L-2 S
		Q65	K-1 S
D1	J-7 S	Q66	L-3 S
D2	D-6 S	Q67	K-8 C
D3	H-5 S	Q68	H-7 C
		Q70	G-5 S
E1	E-2 C	Q71	H-5 C
		Q72	H-6 S
		Q73	J-2 C
IC1	B-4 C	RV1	I-1 C
IC4	G-2 C		I-1 S
	G-2 S	RV2	H-3 C
IC5	J-3 C		H-3 S
IC6	J-8 C	RV3	J-1 C
IC7	C-4 C		J-1 S
IC8	E-2 S	RV5	K-7 C
IC9	F-1 C		K-7 S
IC10	F-6 C	RV6	K-2 C
IC11	D-7 C		K-2 S
IC12	H-5 C	RV7	F-6 C
			F-6 S
		RV8	G-5 C
			G-5 S
Q1	A-5 S	S1	K-1 C
Q2	B-5 S		
Q3	C-6 S	TP2	C-3 C
Q4	A-4 S		C-3 S
Q5	A-3 S	TP4	D-3 C
Q6	A-2 S		D-3 S
Q7	A-3 S	TP5	J-5 C
Q8	A-2 S		J-5 S
Q9	A-2 S	TP6	K-5 C
Q10	B-2 S		K-5 S
Q11	A-1 S	TP7	H-3 C
Q12	B-1 S		H-3 S
Q13	C-2 S	TP8	H-1 C
Q14	D-4 S		H-1 S
Q15	E-4 S	TP9	H-3 C
Q16	E-5 S		H-3 S
Q17	D-5 S	TP10	K-5 C
Q18	C-5 S		K-5 S
Q19	C-5 S	TP11	L-5 C
Q20	D-7 S		L-5 S
Q21	C-4 S	TP12	K-8 C
Q22	C-3 S		K-8 S
Q23	C-2 S		
Q24	D-3 S		
Q25	D-2 S		
Q26	F-1 S		
Q27	E-1 S		
Q28	F-2 S		
Q29	G-2 S		
Q30	G-3 S		
Q31	H-4 C		
Q32	H-4 C		
Q33	H-3 S		
Q34	H-4 S		
Q35	G-5 S		
Q36	D-7 S		
Q37	D-7 S		
Q38	E-6 S		
Q39	K-5 C		
Q40	J-7 C		
Q41	I-4 C		
Q42	I-5 S		
Q43	J-5 S		
Q44	K-5 S		
Q45	G-3 S		
Q47	I-1 S		
Q48	L-6 C		
Q52	J-7 C		
Q53	J-7 S		
Q54	J-7 S		
Q55	J-8 C		

*-C; COMPONENT SIDE
*-S; SOLDER SIDE

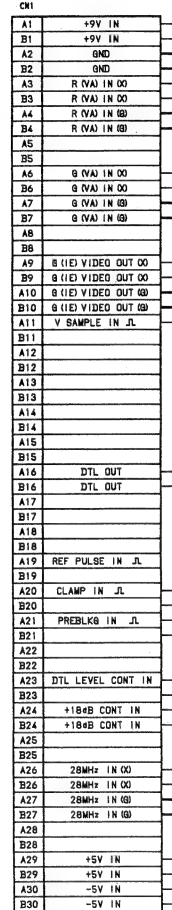


IE-16 - COMPONENT SIDE -
1-625-399-15
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



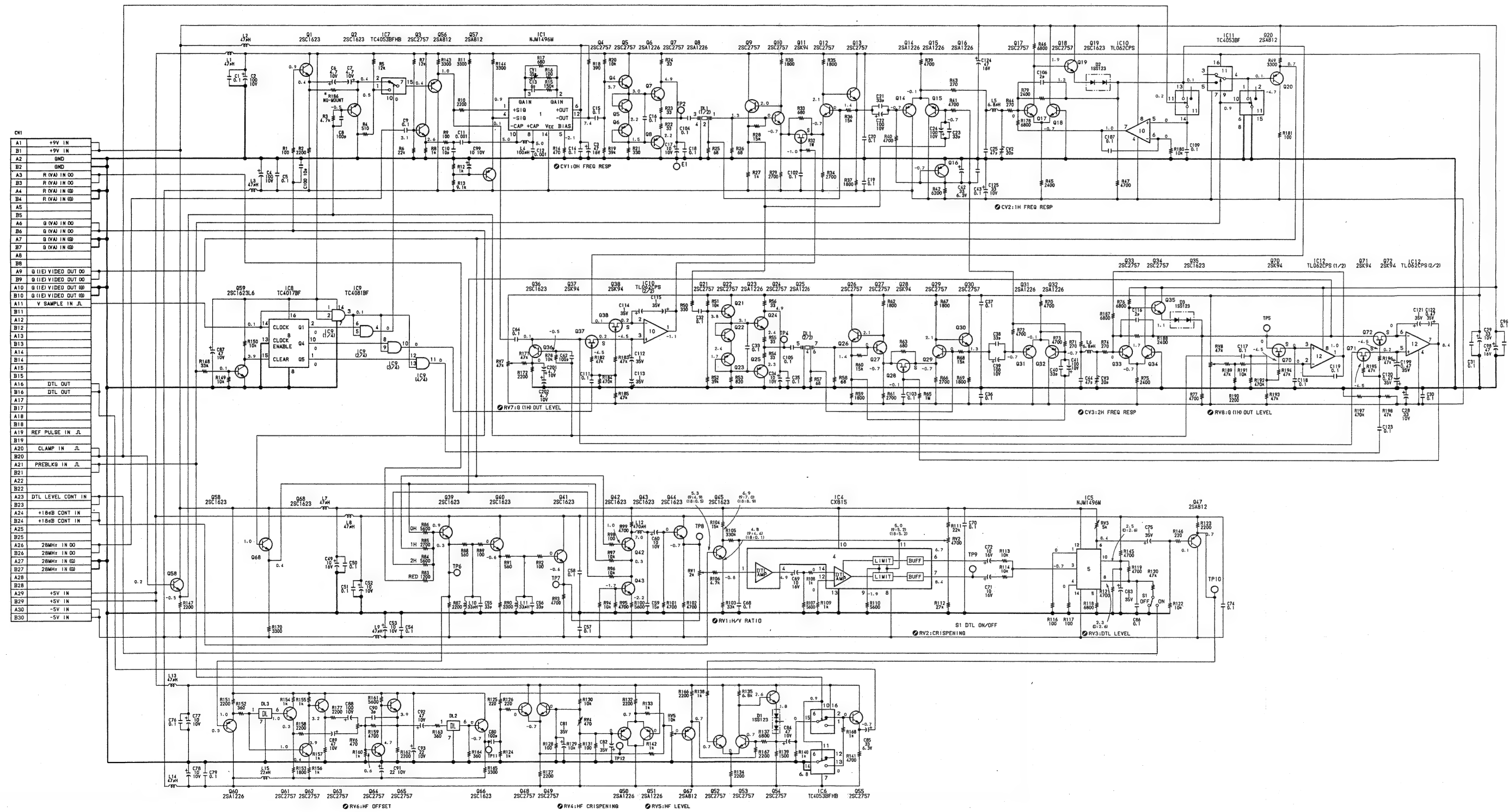
IE-16 - SOLDER SIDE -
1-625-399-15
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

30001 - 30350 (J)



B-DXCM7-E16M/1

Ser. No. 10401 - 11610 (UC)
30351 - 31200 (J)



C-M7 (J) (UC)
C-M7P (EK)
C-M7PM (BRZ)

6-15 (B)

6-16 (B)

R-DXCM7-IE16M/Z

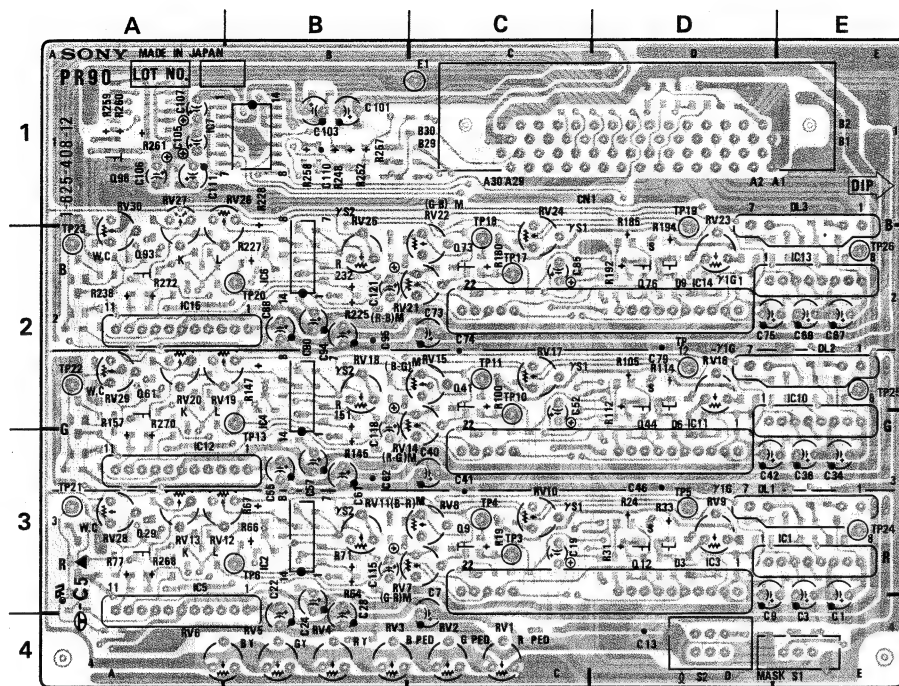
PR-90 BOARD (PROCESS)

Ser.No.10701-11610 (UC)
30551-31200 (J)

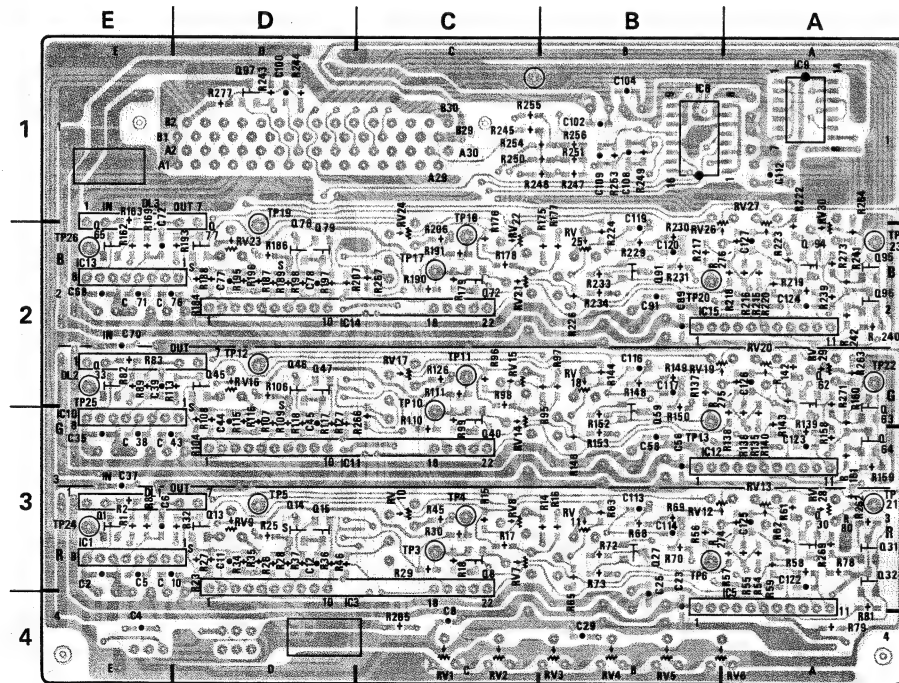
PR-90 (1-625-408-12)

CN1	D-1 C	RV7	C-3 C
D3	D-3 C	RV8	C-3 S
D6	D-2 C	RV9	C-3 S
D9	D-2 C	RV10	C-3 C
DL1	E-3 C	RV11	B-3 C
DL2	E-2 C	RV12	A-3 C
DL3	E-2 C	RV13	B-3 S
E1	C-1 C	RV14	A-3 C
IC1	E-3 C	RV15	C-2 C
IC2	B-3 C	RV16	D-2 C
IC3	D-3 C	RV17	C-2 S
IC4	B-2 C	RV18	B-2 C
IC5	A-3 C	RV19	A-2 C
IC6	B-2 C	RV20	A-2 C
IC7	B-1 C	RV21	C-2 C
IC8	A-1 S	RV22	C-2 S
IC9	A-1 S	RV23	D-2 C
IC10	E-2 C	RV24	C-2 C
IC11	D-3 C	RV25	B-2 C
IC12	A-3 C	RV26	B-1 C
IC13	E-2 C	RV27	A-1 C
IC14	D-2 C	RV28	A-3 C
IC15	A-2 C	RV29	A-2 C
Q1	E-3 S	RV30	A-2 S
Q8	C-3 S	S1	E-4 C
Q9	C-3 C	S2	D-4 C
Q12	D-3 C	TP3	C-3 C
Q13	D-3 S	TP4	C-3 C
Q14	D-3 S	TP5	D-3 C
Q15	D-3 S	TP6	B-3 C
Q27	B-3 S	TP10	C-2 C
Q29	A-3 C	TP11	C-2 C
Q30	A-3 S	TP12	D-2 C
Q31	A-3 S	TP13	B-2 C
Q32	A-3 S	TP17	C-2 C
Q33	E-2 S	TP18	C-2 C
Q40	C-3 S	TP19	D-1 C
Q41	C-2 C	TP20	D-1 S
Q44	D-2 C	TP21	A-3 C
Q45	D-2 S	TP22	A-2 C
Q46	D-2 S	TP23	A-2 S
Q47	D-2 S	TP24	E-3 C
Q59	B-3 S	TP25	E-3 S
Q61	A-2 C	TP26	E-2 C
Q62	A-2 S		E-2 S
Q63	A-3 S		E-2 S
Q64	A-3 S		E-2 S
Q65	E-2 S		E-2 S
Q72	C-2 S		E-2 S
Q73	C-2 C		E-2 S
Q76	D-2 C		E-2 S
Q77	D-2 C		E-2 S
Q78	D-2 S		E-2 S
Q79	D-2 S		E-2 S
Q91	B-2 S		E-2 S
Q93	A-2 C		E-2 S
Q94	A-2 S		E-2 S
Q95	A-2 S		E-2 S
Q97	D-1 S		E-2 S
Q98	A-1 C		E-2 S
RV1	C-4 C		
RV2	C-4 S		
RV3	B-4 C		
RV4	B-4 S		
RV5	B-4 C		
RV6	B-4 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE



PR-90 - COMPONENT SIDE -
1-625-408-12
DXC-M7 (J, UC)



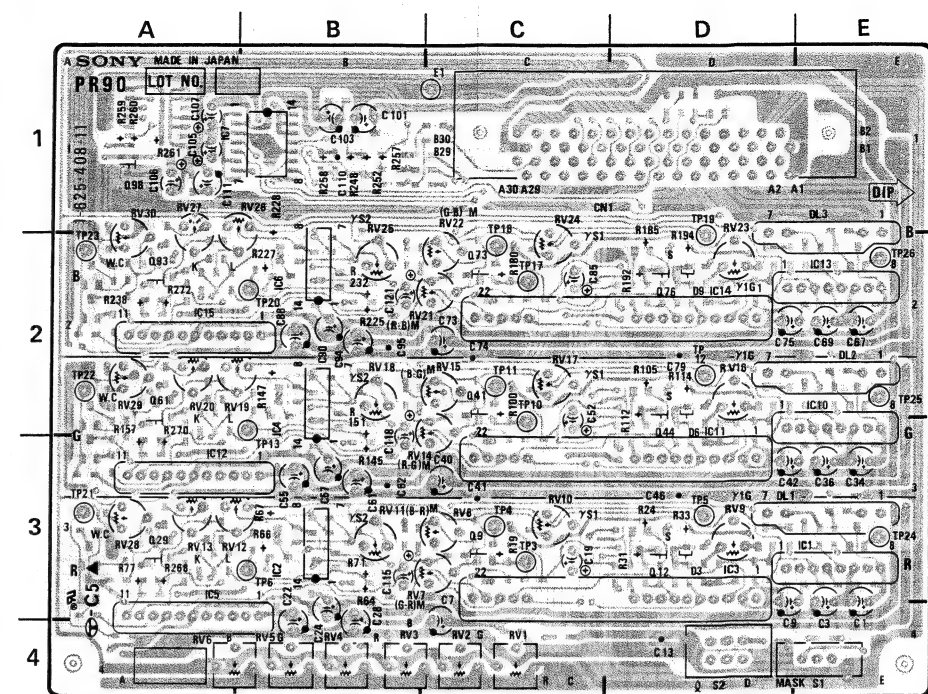
PR-90 - SOLDER SIDE -
1-625-408-12
DXC-M7 (J, UC)

PR-90 (1-625-408-11)

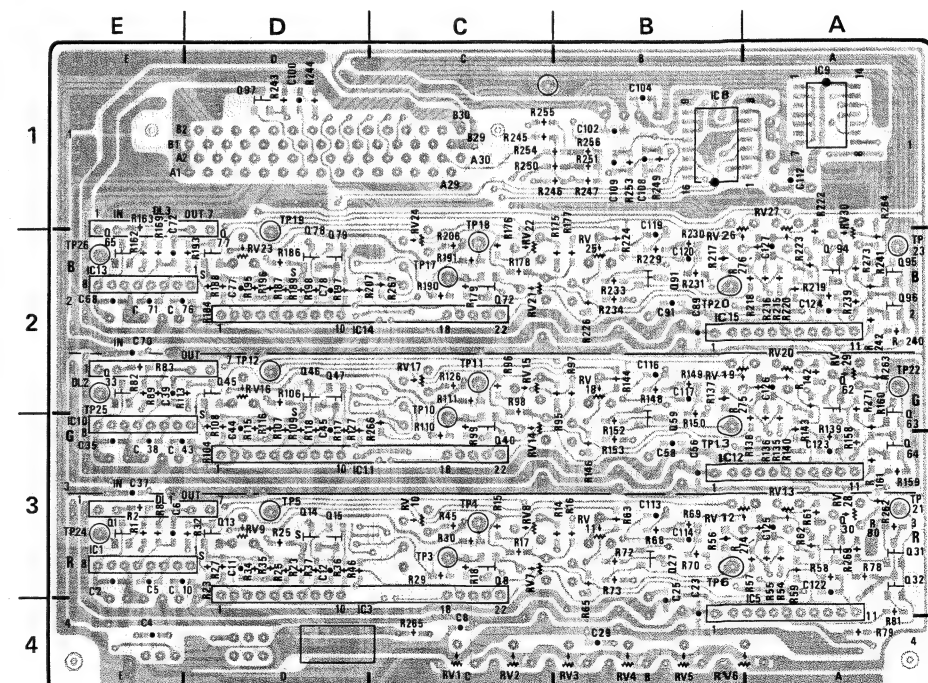
CN1	C-1 C	RV8	C-3 C
D3	D-3 C	RV9	D-3 C
D6	D-2 C	RV10	C-3 C
D9	D-2 C	RV11	B-3 C
DL1	D-3 C	RV12	A-3 C
DL2	E-3 S	RV13	A-3 C
DL3	E-2 C	RV14	B-3 C
	E-1 C	RV15	C-3 S
	E-1 S	RV16	C-2 C
IC1	E-3 C	RV17	D-2 C
IC2	B-3 C	RV18	B-2 C
IC3	D-3 C	RV19	B-2 S
IC5	A-3 C	RV20	A-2 C
IC6	B-2 C	RV21	A-2 S
IC7	A-1 C	RV22	C-1 C
IC8	B-1 S	RV23	C-2 S
IC9	A-1 S	RV24	D-1 C
IC10	E-2 C	RV25	D-2 S
IC11	D-2 C	RV26	C-1 C
IC12	D-3 S	RV27	B-2 S
IC13	E-2 C	RV28	A-1 C
IC14	D-4 S	RV29	A-3 C
IC15	D-2 C	RV30	A-3 S
	A-2 C		A-1 S
	B-2 S		A-1 S
Q1	E-3 S	S1	E-4 C
Q8	C-3 S	S2	D-4 C
Q9	C-3 C	TP3	C-3 C
Q12	D-3 C	TP4	C-3 S
Q13	D-3 S	TP5	C-3 S
Q14	D-3 S	TP6	D-3 C
Q15	D-3 S	TP10	B-3 C
Q27	B-3 S	TP11	C-2 C
Q29	A-3 C	TP12	C-2 S
Q30	A-3 S	TP13	D-2 C
Q31	A-3 S	TP17	D-2 S
Q32	A-3 S	TP18	D-2 C
Q33	E-2 S	TP19	B-3 C
Q40	C-3 S	TP20	B-3 S
Q41	C-2 C	TP21	C-2 C
Q44	D-2 C	TP22	C-2 S
Q45	D-2 S	TP23	A-2 C
Q46	D-2 S	TP24	A-2 S
Q47	D-2 S	TP25	E-3 C
Q59	B-3 S	TP26	E-3 S
Q61	A-2 C		E-2 C
Q63	A-3 S		E-2 S
Q64	A-3 S		E-2 S
Q65	E-2 S		E-2 S
Q72	C-2 S		E-2 S
Q73	C-2 C		E-2 S
Q76	D-2 C		E-2 S
Q78	D-2 S		E-2 S
Q79	D-2 S		E-2 S
Q91	B-2 S		E-2 S
Q93	A-2 C		E-2 S
Q94	A-2 S		E-2 S
Q95	A-2 S		E-2 S
Q97	D-1 S		E-2 S
Q98	A-1 C		E-2 S
RV1	C-4 C		
RV2	C-4 S		
RV3	B-4 C		
RV4	B-4 S		
RV5	B-4 C		
RV6	B-4 S		
RV7	B-3 C		
	C-3 S		

** C: COMPONENT SIDE
** S: SOLDERING SIDE

Ser.No.10001-10700 (UC)
30001-30550 (J)

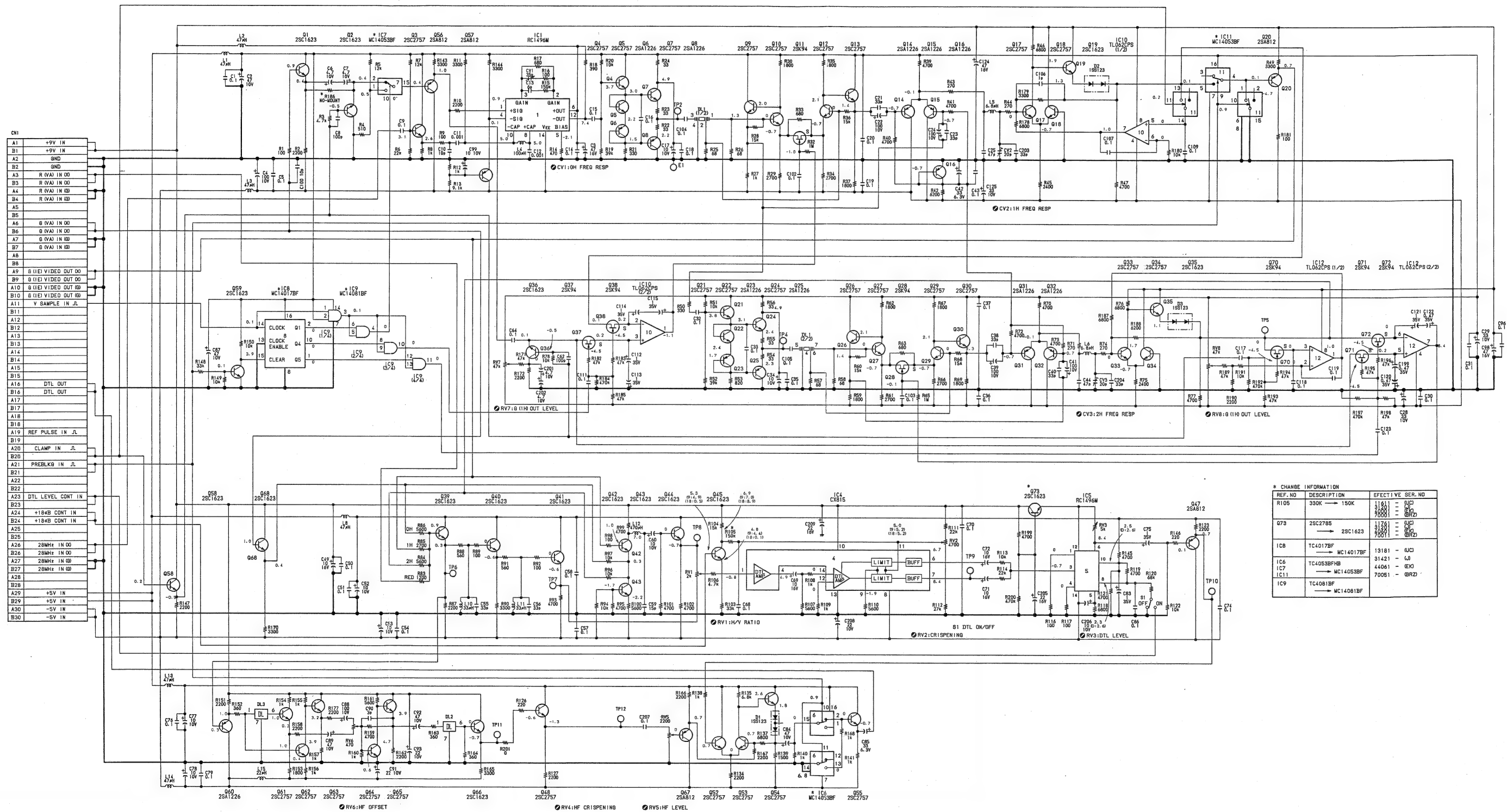


PR-90 - COMPONENT SIDE -
1-625-408-11
DXC-M7 (J, UC)



PR-90 - SOLDER SIDE -
1-625-408-11
DXC-M7 (J, UC)

Ser. No. 11611	-	(UC)
31201	-	(J)
40001	-	(EK)
70001	-	(BRZ)



# CHANGE INFORMATION			
REF. NO	DESCRIPTION	EFFECTIVE	SER. NO
R105	330K → 150K	1161 3101 70001	(U) (U) (GRZ)
Q73	2SC2795 → 2SC1623	1176 70001 70001	(U) (U) (GRZ)
IC8	TC4017BF → MC14017BF	13181 31421	(U) (U)
IC6 IC7 IC11	TC4053BPFH → MC14053BF	44061 70051	(EX) (GRZ)
IC9	TC4081BF → MC14081BF		

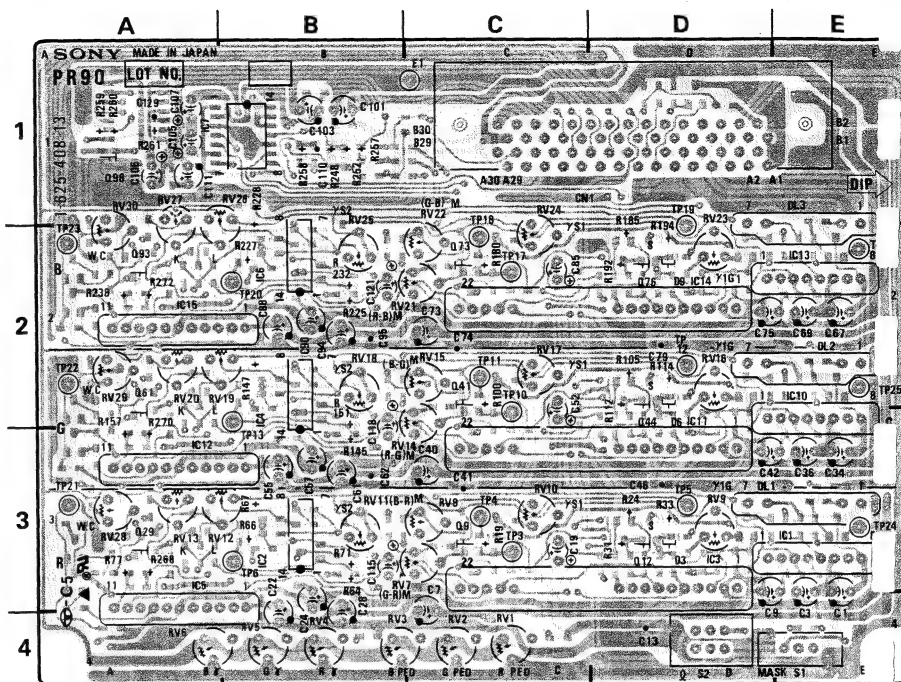
PR-90/90P BOARD (PROCESS)

Ser.No.11611-	(UC)
31201-	(J)
40001-	(EK)
70001-	(BRZ)

PR-90/90P (1-625-408-13)

CN1	D-1 C	RV4	B-4 C	TP23	A-2 C
D3	D-3 C	RV5	B-4 S	TP24	A-2 S
D6	D-2 C	RV6	B-4 C	TP25	E-3 C
D9	D-2 C	RV7	A-4 C	TP26	E-2 C
DL1	E-3 C	RV8	B-4 S		E-2 S
DL2	E-3 S	RV9	C-3 C		E-2 C
DL3	E-2 C	RV10	C-3 S		E-2 S
DL3	E-2 C	RV11	C-3 C		
E1	C-1 C	RV12	C-3 S		
IC1	E-3 C	RV13	B-3 C		
IC2	E-3 S	RV14	B-3 S		
IC3	B-3 C	RV15	A-3 C		
IC4	D-3 C	RV16	A-3 S		
IC5	D-2 C	RV17	A-2 C		
IC6	A-3 C	RV18	C-2 C		
IC7	A-4 S	RV19	C-2 S		
IC8	B-2 C	RV20	B-2 C		
IC9	B-1 C	RV21	B-2 S		
IC10	B-1 S	RV22	A-2 C		
IC11	A-1 S	RV23	A-2 S		
IC12	E-2 C	RV24	D-2 C		
IC13	E-3 S	RV25	D-2 S		
IC14	D-3 C	RV26	C-2 C		
IC15	D-2 C	RV27	C-2 S		
Q1	E-3 S	RV28	B-2 C		
Q8	C-3 S	RV29	B-2 S		
Q9	C-3 C	RV30	B-1 C		
Q12	D-3 C		B-1 S		
Q13	D-3 S		A-1 C		
Q14	D-3 S		A-1 S		
Q15	D-3 S		A-3 C		
Q27	B-3 S		A-3 S		
Q29	A-3 C		A-2 C		
Q30	A-3 S		A-2 S		
Q31	A-3 S		A-2 C		
Q32	A-3 S		A-2 S		
Q33	E-2 S		A-2 C		
Q40	C-3 S		A-2 S		
Q41	C-2 C				
Q44	D-2 C	S1	E-4 C		
Q45	D-2 S	S2	D-4 C		
Q46	D-2 S				
Q47	D-2 S	TP3	C-3 C		
Q59	B-3 S	TP4	C-3 S		
Q61	A-2 C	TP5	C-3 C		
Q62	A-2 S	TP6	D-3 C		
Q63	A-3 S		D-3 S		
Q64	A-3 S		B-3 C		
Q65	E-2 S		B-3 S		
Q72	C-2 S	TP10	C-2 C		
Q73	C-2 C	TP11	C-2 S		
Q76	D-2 C	TP12	D-2 C		
Q77	D-2 C	TP13	D-2 S		
Q78	D-2 S		B-2 C		
Q79	D-2 S	TP17	C-2 C		
Q91	B-2 S	TP18	C-2 S		
Q93	A-2 C	TP19	C-2 C		
Q94	A-2 S		D-1 C		
Q95	A-2 S		D-1 S		
Q96	A-2 S	TP20	B-2 C		
Q97	D-1 S	TP21	B-2 S		
Q98	A-1 C	TP22	A-3 C		
RV1	C-4 C		A-3 S		
RV2	C-4 S		A-2 C		
RV3	C-4 S		A-2 S		
RV4	B-4 C				
RV5	B-4 S				

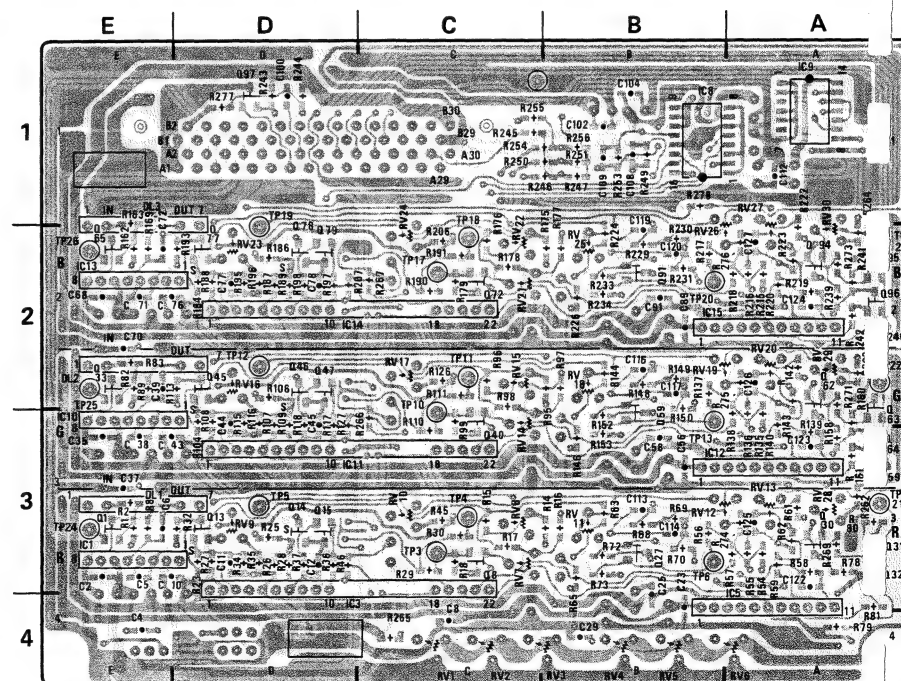
** C: COMPONENT SIDE
** S: SOLDERING SIDE

PR-90/90P - COMPONENT SIDE -
1-625-408-13

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)

PR-90/90P - SOLDER SIDE -
1-625-408-13

DXC-M7 (J, UC)

DXC-M7P (EK)

DXC-M7PM (BRZ)

IE-16 回路図

注意:

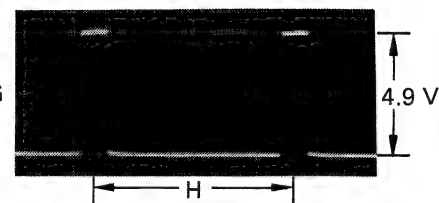
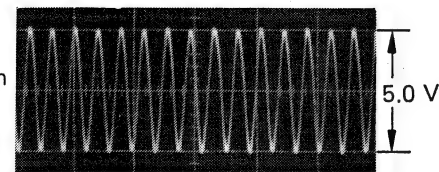
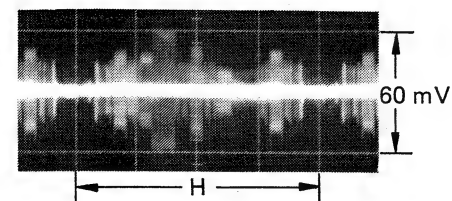
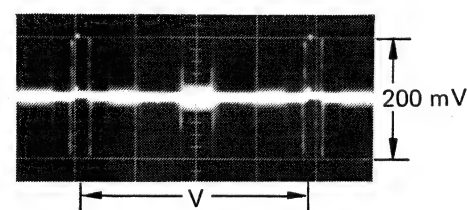
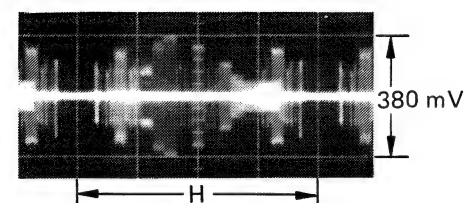
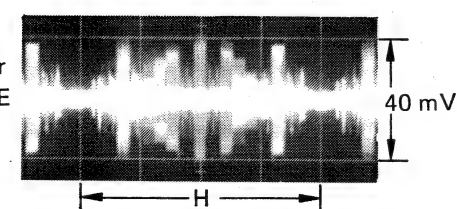
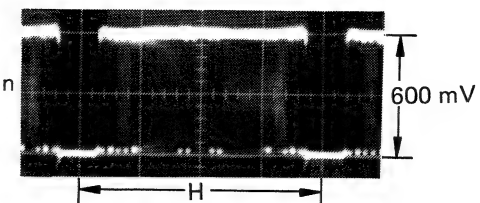
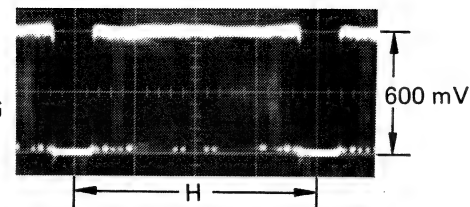
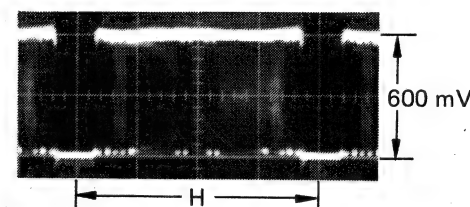
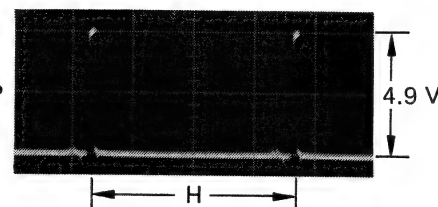
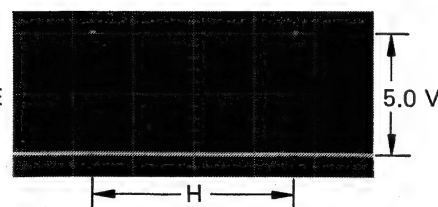
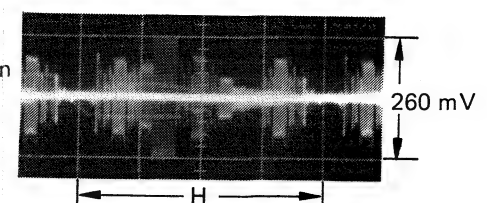
- DC 電圧はデジタル電圧計 (入力インピーダンス $10\text{ M}\Omega$) による値。
- 波形写真及び DC 電圧は下記条件で測定。
 - FILTER つまみ → 1 位置
 - OUTPUT スイッチ → CAM/DCC OFF 位置
 - GAIN 切り換えスイッチ → 0 dB 位置
 - WHT BAL スイッチ → PRESET 位置
 - S2 **TEST** / AT-46 基板 → OFF 位置
 - S1 **DETAIL** / IE-16 基板 → ON 位置
 - マルチバーストを撮像し、波形モニターにて、ビデオ出力の 0.5 MHz のレベルが 100 IRE になる様に、レンズ絞りをセットする。

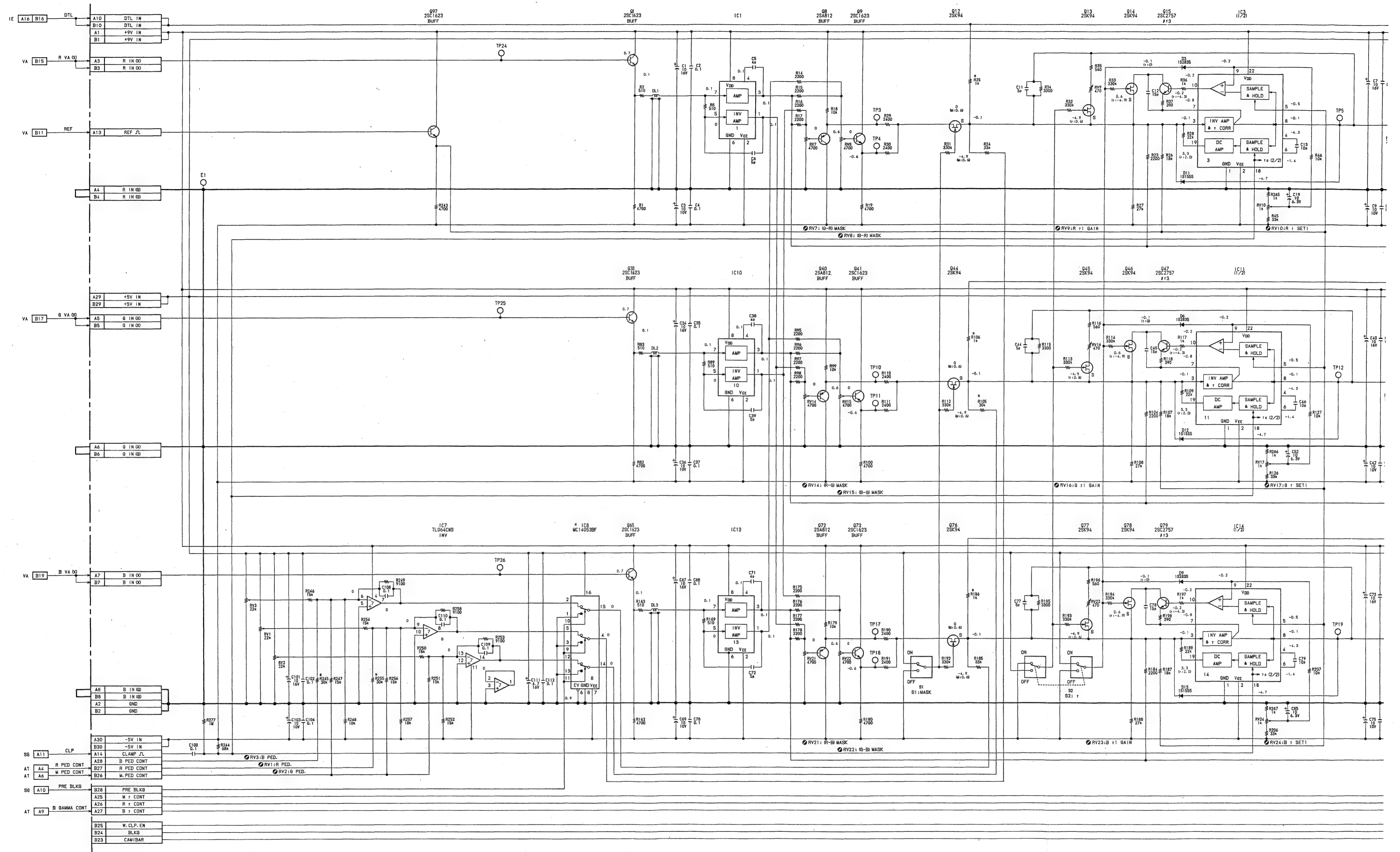
IE-16

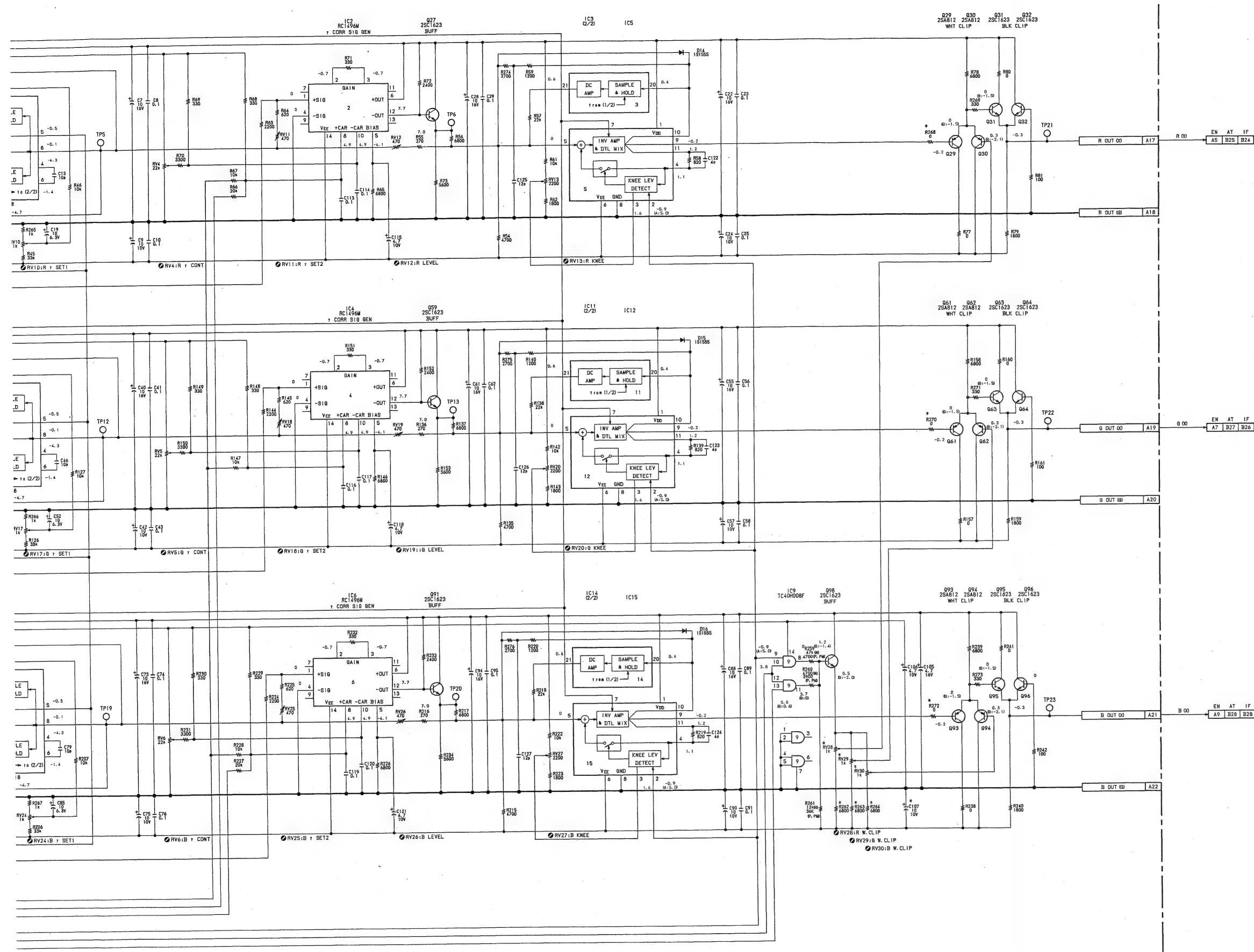
NOTE:

- All voltage are dc, measured with a digital voltmeter. (input impedance: $10\text{ M}\Omega$)
- All waveforms are taken and DC voltage is measured in condition below.
 - Set camera FILTER selector to 1 position.
 - Set camera OUTPUT selector to CAM/DCC OFF position.
 - Set camera GAIN selector to 0dB position.
 - Set camera WHT BAL selector to PRESET position.
 - Set camera S2 **TEST** / AT-46 board to OFF position.
 - Set camera S1 **DETAIL** / IE-16 board to ON position.
 - Shoot the multiburst chart. Adjust lens iris so that a 0.5MHz level is 100 IRE on the waveform monitor.

PREBLKG

A26, B26pin
28MHzTP10
DTLTP8
V DTLTP7
H DTLQ67-emitter
APERTURE
DTLA6, B6pin
G INTP3
1H GTP5
2H GA20pin
CLAMP
PULSEA11pin
V SAMPLE
PULSEA16, B16pin
DTL
OUT





REF. NO.	DESCRIPTION	EFFECTIVE SER. NO.
R262, R263, R264	33K → 680K	10051 - JCO
RV28, RV29, RV30	4700 → 1K	30051 - LJ
		40001 - EKO
		70001 - BRZ
RV1, RV2, RV3	20K → 22K	10701 - JCO
RV4, RV5, RV6		30051 - LJ
		40001 - EKO
		70001 - BRZ
R25, R10A, R186	33K → 1K	11351 - JCO
D11 - D16	OPEN → 1S1555	31201 - LJ
		40001 - EKO
		70001 - BRZ
R268, R270, R272	330 → 0	11961 - JCO
		31201 - LJ
R105	33K → 30K	11961 - JCO
R245, R255	15K → 30K	31311 - LJ
		41291 - EKO
		70011 - BRZ
IC8	TC4053BF48	13181 - JCO
	MC14053BF	31421 - LJ
		44041 - EKO
		70051 - BRZ
C107	4.7uF/10V	15141 - JCO
	10uF/10V	32021 - LJ
		46031 - EKO
		70051 - BRZ

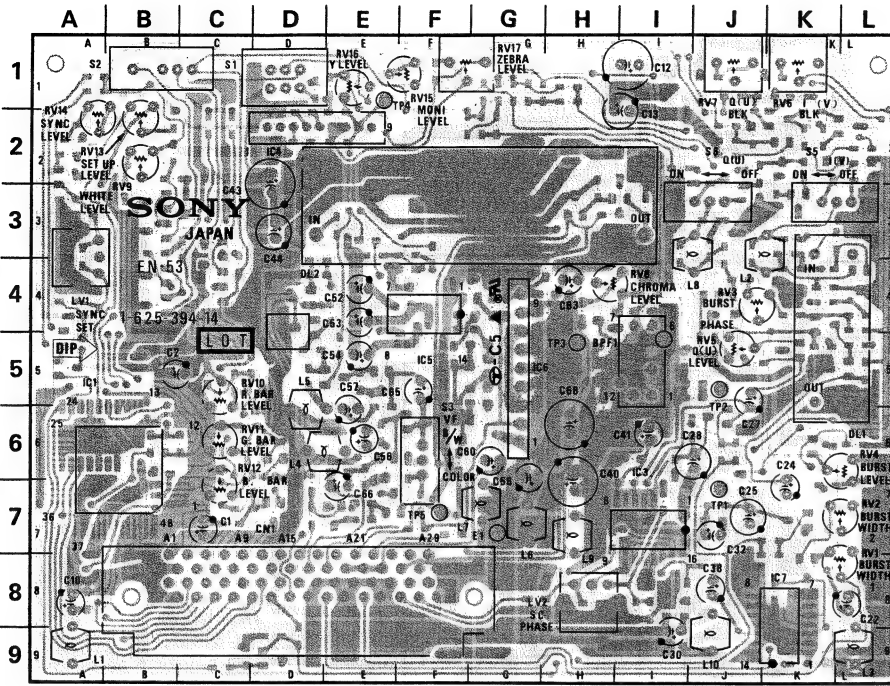
EN-53 BOARD (ENCODER)

Ser.No.11611- (UC)
31201- (J)
40001- (EK)
70001- (BRZ)

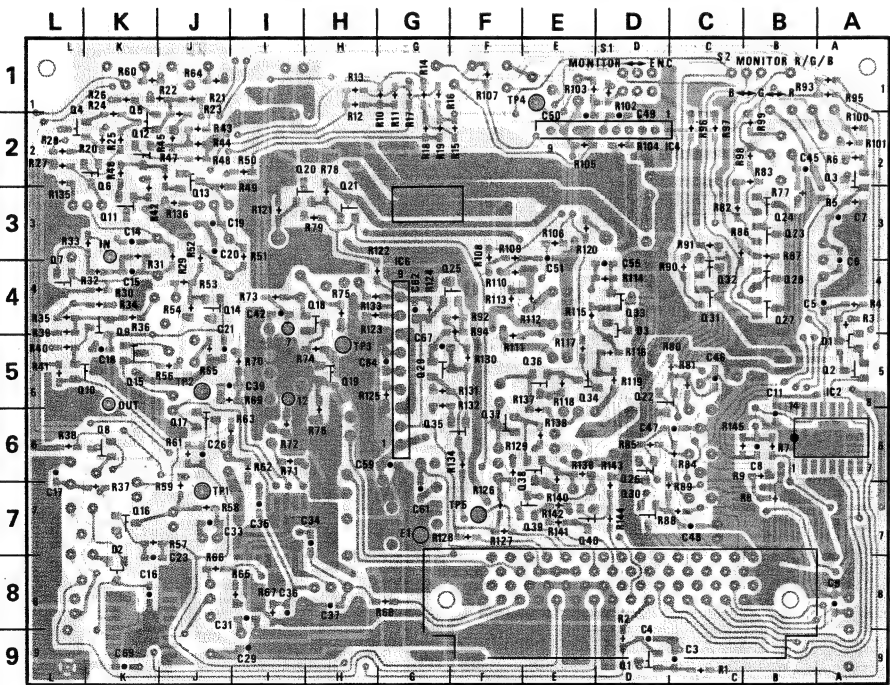
EN-53 (1-625-394-14)

CN1	D-8 C	S1	D-1 C
D1	A-5 S	S2	D-1 S
D2	K-8 S	S3	B-1 C
D3	D-4 S	S5	F-6 C
DL1	K-5 C	S6	K-3 C
DL2	F-3 C		J-3 C
E1	G-7 C	TP1	J-7 C
	G-7 S	TP2	J-5 C
			J-5 S
IC1	B-6 C	TP3	H-5 C
IC2	A-6 S	TP4	E-1 C
IC3	I-7 C		E-1 S
IC4	D-2 C	TP5	F-7 C
	D-2 S		F-7 S
IC5	F-4 C		
IC6	G-5 C		
	G-5 S		
IC7	K-8 C		
LV1	A-4 C		
LV2	H-8 C		
Q1	D-9 S		
Q2	A-5 S		
Q3	A-2 S		
Q4	L-2 S		
Q5	K-2 S		
Q6	K-2 S		
Q7	L-4 S		
Q8	K-6 S		
Q9	K-4 S		
Q10	K-5 S		
Q11	K-3 S		
Q12	K-2 S		
Q13	J-2 S		
Q14	J-4 S		
Q15	K-5 S		
Q16	K-7 S		
Q17	J-6 S		
Q18	H-4 S		
Q19	H-5 S		
Q20	H-3 S		
Q21	H-3 S		
Q22	D-5 S		
Q23	B-3 S		
Q24	B-3 S		
Q25	F-4 S		
Q26	D-6 S		
Q27	B-4 S		
Q28	B-4 S		
Q29	G-5 S		
Q30	D-7 S		
Q31	C-4 S		
Q32	C-4 S		
Q33	D-4 S		
Q34	E-5 S		
Q35	F-6 S		
Q36	E-5 S		
Q37	F-6 S		
Q38	E-6 S		
Q39	E-7 S		
Q40	E-7 S		
RV1	L-8 C		
RV2	L-7 C		
RV3	J-4 C		
RV4	L-6 C		
RV5	J-5 C		
RV6	K-1 C		
RV7	J-1 C		
RV8	H-4 C		
RV9	B-2 C		
RV10	C-5 C		
RV11	C-6 C		
RV12	C-7 C		
RV13	B-2 C		
RV14	A-2 C		
RV15	F-1 C		
RV16	E-1 C		
RV17	F-1 C		

** C; COMPONENT SIDE
** S; SOLDERING SIDE



EN-53 - COMPONENT SIDE -
1-625-394-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



EN-53 - SOLDER SIDE -
1-625-394-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

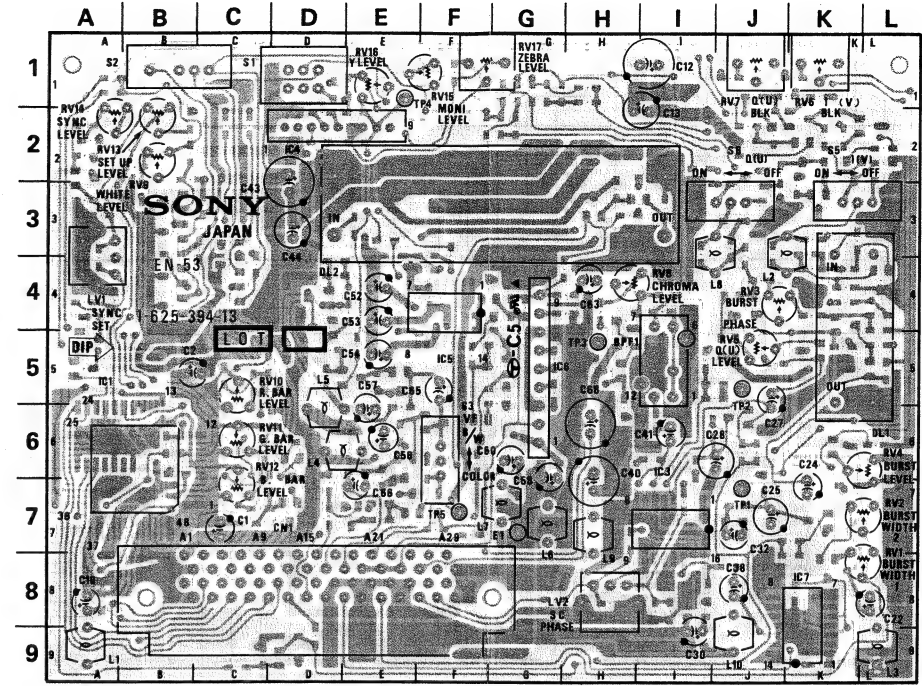
EN-53 EN-53

EN-53 (1-625-394-13)

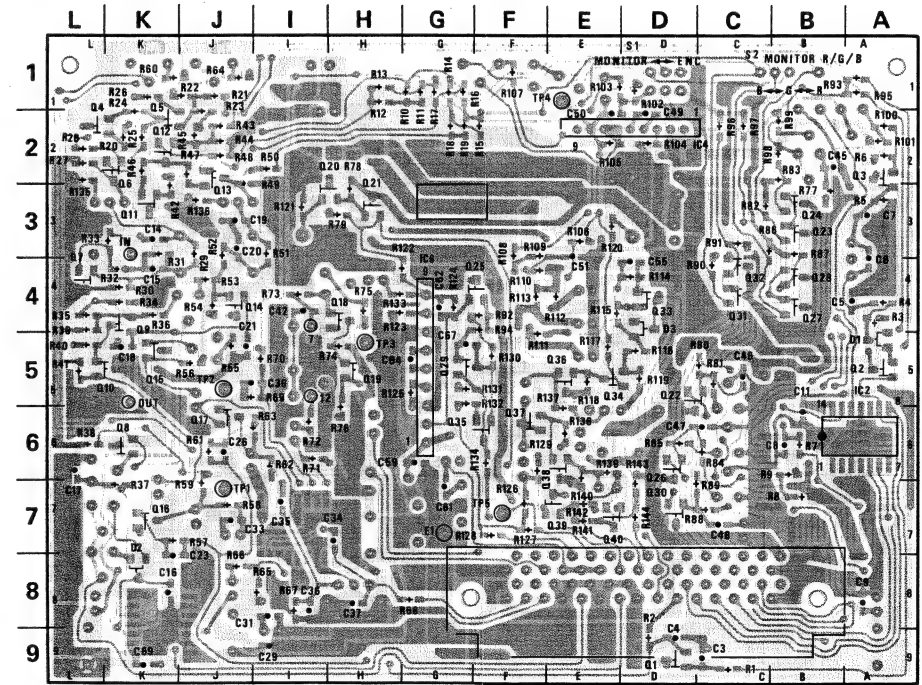
CN1	D-8 C	S1	D-1 C
D1	A-5 S	S2	D-1 S
D2	K-8 S	S3	B-1 C
D3	D-4 S	S5	F-6 C
DL1	K-5 C	S6	K-3 C
DL2	F-3 C		J-3 C
E1	G-7 C	TP1	J-7 C
	G-7 S	TP2	J-5 C
			J-5 S
IC1	B-6 C	TP3	H-5 C
IC2	A-6 S	TP4	E-1 C
IC3	I-7 C		E-1 S
IC4	D-2 C	TP5	F-7 C
	D-2 S		F-7 S
IC5	F-4 C		
IC6	G-5 C		
	G-5 S		
IC7	K-8 C		
LV1	A-4 C		
LV2	H-8 C		
Q1	D-9 S		
Q2	A-5 S		
Q3	A-2 S		
Q4	L-2 S		
Q5	K-2 S		
Q6	K-2 S		
Q7	L-4 S		
Q8	K-6 S		
Q9	K-4 S		
Q10	K-5 S		
Q11	K-3 S		
Q12	K-2 S		
Q13	J-2 S		
Q14	J-4 S		
Q15	K-5 S		
Q16	K-7 S		
Q17	J-6 S		
Q18	H-4 S		
Q19	H-5 S		
Q20	H-3 S		
Q21	H-3 S		
Q22	D-5 S		
Q23	B-3 S		
Q24	B-3 S		
Q25	F-4 S		
Q26	D-6 S		
Q27	B-4 S		
Q28	B-4 S		
Q29	G-5 S		
Q30	D-7 S		
Q31	C-4 S		
Q32	C-4 S		
Q33	D-4 S		
Q34	E-5 S		
Q35	F-6 S		
Q36	E-5 S		
Q37	F-6 S		
Q38	E-6 S		
Q39	E-7 S		
Q40	E-7 S		
RV1	L-8 C		
RV2	L-7 C		
RV3	J-4 C		
RV4	L-6 C		
RV5	J-5 C		
RV6	K-1 C		
RV7	J-1 C		
RV8	H-4 C		
RV9	B-2 C		
RV10	C-5 C		
RV11	C-6 C		
RV12	C-7 C		
RV13	B-2 C		
RV14	A-2 C		
RV15	F-1 C		
RV16	E-1 C		
RV17	F-1 C		

** C; COMPONENT SIDE
** S; SOLDERING SIDE

Ser.No.11351-11610 (UC)



EN-53 - COMPONENT SIDE -
1-625-394-13
DXC-M7 (J, UC)



EN-53 - SOLDER SIDE -
1-625-394-13
DXC-M7 (J, UC)

EN-53 (1-6

CN1	D
D1	A
D2	K
D3	D
DL1	L
DL2	D
E1	G
	G
IC1	B
IC2	A
IC3	I
IC4	D
	C
IC5	F
IC6	G
	G
IC7	K
L6	G
LV1	A
LV2	H
Q1	D
Q2	A
Q3	A
Q4	L
Q5	K
Q6	K
Q7	L
Q8	K
Q9	K
Q10	K
Q11	K
Q12	K
Q13	J
Q14	J
Q15	K
Q16	K
Q17	J
Q18	H
Q19	H
Q20	H
Q21	H
Q22	D
Q23	B
Q24	B
Q25	F
Q26	C
Q27	B
Q28	B
Q29	C
Q30	C
Q31	C
Q32	C
Q33	C
Q34	E
Q35	F
Q36	E
Q37	F
Q38	E
Q39	E
Q40	E
RV1	L
RV2	L
RV3	L
RV4	L
RV5	L
RV6	L
RV7	L
RV8	L
RV9	L
RV10	L
RV11	L
RV12	L
RV13	L
RV14	L
RV15	L
RV16	L
RV17	L

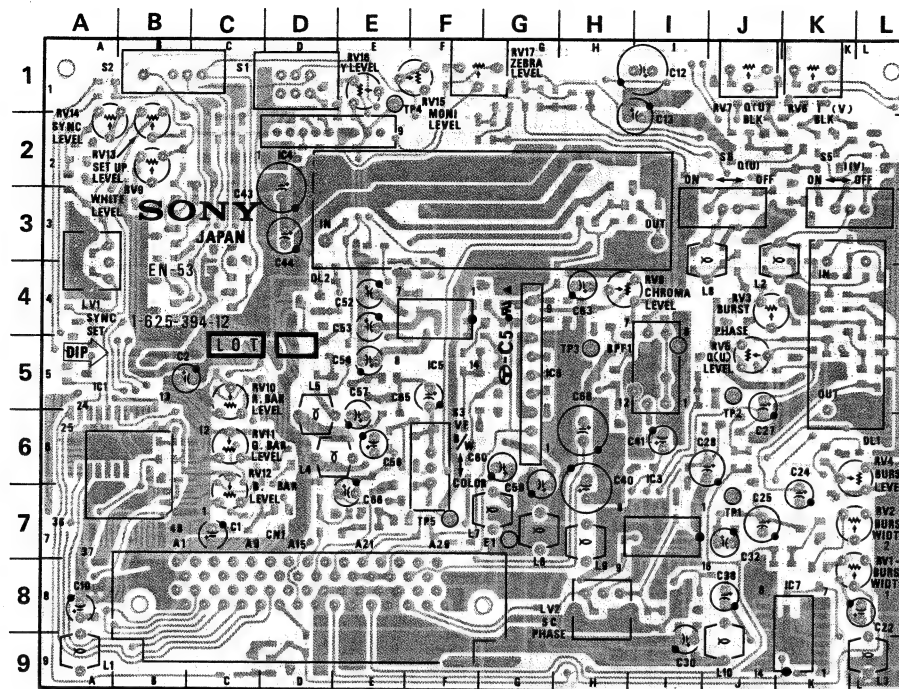
** C;
** S;

Ser.No.10401-11350 (UC)
30351-31200 (J)

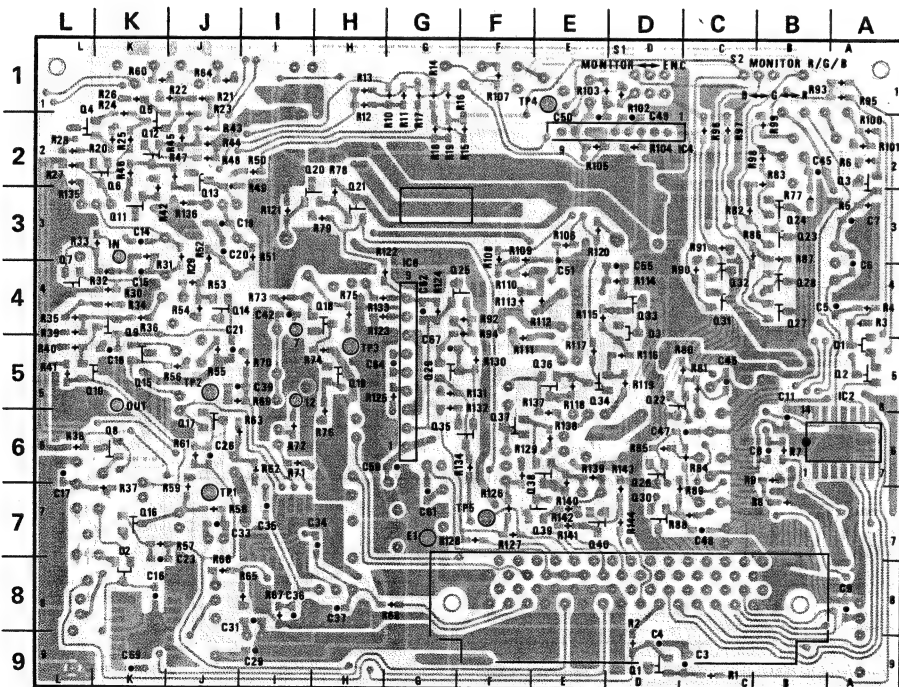
EN-53 (1-625-394-12)

CN1	D-8 C	S1	D-1 C
D1	A-5 S	S2	B-1 C
D2	K-8 S	S3	C-1 S
D3	D-4 S	S5	F-6 C
		S6	K-3 C
DL1	L-6 C	TP1	J-7 C
DL2	D-4 C		J-7 S
E1	G-7 C	TP2	J-5 C
	G-7 S		J-5 S
IC1	B-6 C	TP3	H-5 C
IC2	A-6 S		H-5 S
IC3	I-7 C	TP4	E-1 C
IC4	D-2 C		E-1 S
	C-2 S	TP5	F-7 C
IC5	F-4 C		F-7 S
IC6	G-5 C		
	G-4 S		
IC7	K-8 C		
L6	G-7 C		
LV1	A-4 C		
LV2	H-8 C		
Q1	D-9 S		
Q2	A-5 S		
Q3	A-2 S		
Q4	L-2 S		
Q5	K-2 S		
Q6	K-2 S		
Q7	L-4 S		
Q8	K-6 S		
Q9	K-4 S		
Q10	K-5 S		
Q11	K-3 S		
Q12	K-2 S		
Q13	J-2 S		
Q14	J-4 S		
Q15	K-5 S		
Q16	K-7 S		
Q17	J-6 S		
Q18	H-4 S		
Q19	H-5 S		
Q20	H-3 S		
Q21	H-3 S		
Q22	D-5 S		
Q23	B-3 S		
Q24	B-3 S		
Q25	F-4 S		
Q26	D-6 S		
Q27	B-4 S		
Q28	B-4 S		
Q29	G-5 S		
Q30	D-7 S		
Q31	C-4 S		
Q32	C-4 S		
Q33	D-4 S		
Q34	E-5 S		
Q35	F-6 S		
Q36	E-5 S		
Q37	F-6 S		
Q38	E-6 S		
Q39	E-7 S		
Q40	E-7 S		
RV1	L-8 C		
RV2	L-7 C		
RV3	J-4 C		
RV4	L-6 C		
RV5	J-5 C		
RV6	K-1 C		
RV7	J-1 C		
RV8	H-4 C		
RV9	B-2 C		
RV10	C-5 C		
RV11	C-6 C		
RV12	C-6 C		
RV13	B-2 C		
RV14	A-2 C		
RV15	F-1 C		
RV16	E-1 C		
RV17	G-1 C		

**-C: COMPONENT SIDE
**-S: SOLDERING SIDE



EN-53 - COMPONENT SIDE -
1-625-394-12
DXC-M7 (J, UC)



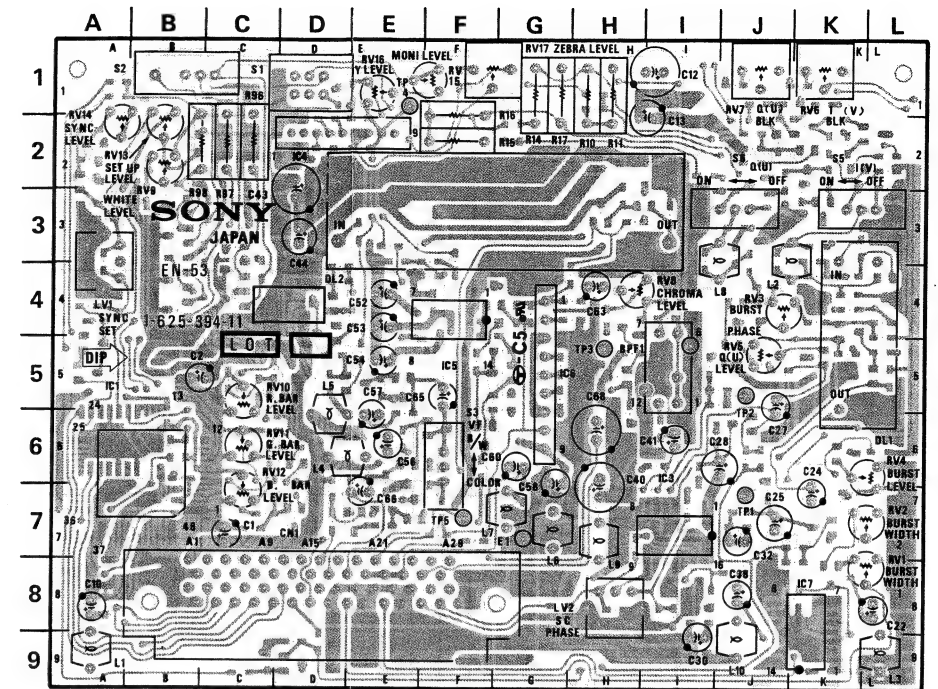
EN-53 - SOLDER SIDE -
1-625-394-12
DXC-M7 (J, UC)

Ser.No.10001-10400 (UC)
30001-30350 (J)

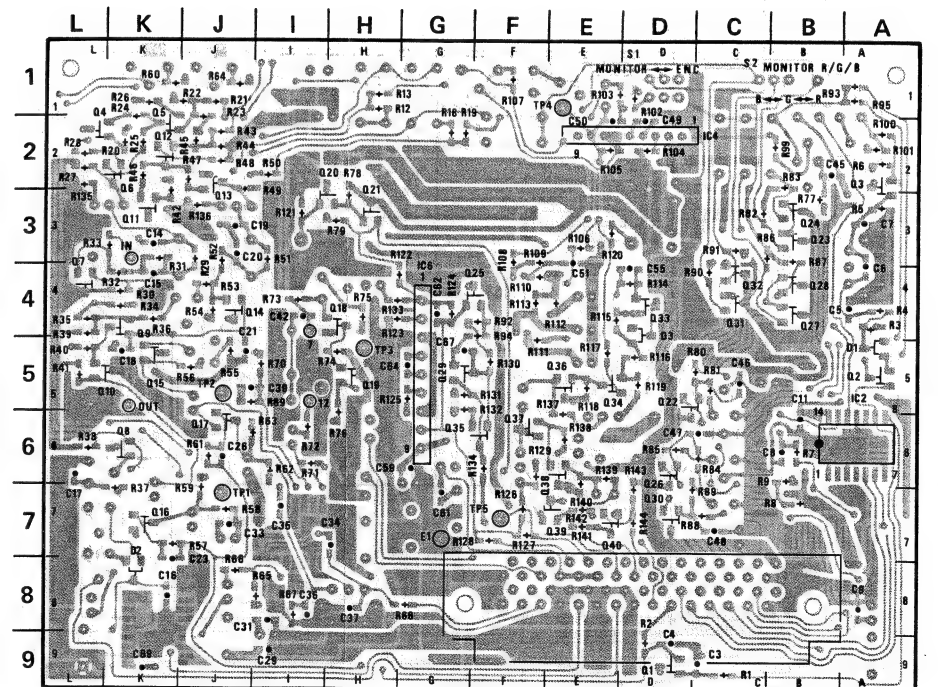
EN-53 (1-625-394-11)

CN1	D-7 C	S1	C-1 C
D1	A-5 S	S2	A-1 C
D2	K-7 S	S3	F-6 C
D3	D-4 S	S5	K-2 C
		S6	J-2 C
DL1	L-6 C	TP1	J-7 C
DL2	D-4 C		J-7 S
E1	G-7 C	TP2	J-5 C
	G-7 S		J-5 S
IC1	A-5 C	TP3	H-5 C
IC2	A-5 S		H-5 S
IC3	I-6 C	TP4	E-1 C
IC4	D-2 C		E-1 S
	C-2 S	TP5	F-7 C
IC5	F-5 C		F-7 S
IC6	G-5 C		
	G-4 S		
IC7	K-8 C		
L6	G-7 C		
LV1	A-4 C		
LV2	G-8 C		
Q1	D-9 S		
Q2	A-5 S		
Q3	A-2 S		
Q4	L-1 S		
Q5	K-1 S		
Q6	K-2 S		
Q7	L-3 S		
Q8	K-6 S		
Q9	K-4 S		
Q10	K-5 S		
Q11	K-3 S		
Q12	K-2 S		
Q13	J-2 S		
Q14	J-4 S		
Q15	K-5 S		
Q16	K-7 S		
Q17	J-6 S		
Q18	H-4 S		
Q19	H-5 S		
Q20	H-2 S		
Q21	H-3 S		
Q22	D-5 S		
Q23	B-3 S		
Q24	B-3 S		
Q26	D-6 S		
Q27	B-4 S		
Q28	B-4 S		
Q29	G-5 S		
Q30	D-7 S		
Q31	C-4 S		
Q32	C-4 S		
Q33	D-4 S		
Q34	E-5 S		
Q35	G-6 S		
Q36	E-5 S		
Q37	F-6 S		
Q38	E-7 S		
Q39	E-7 S		
Q40	E-7 S		
RV1	L-8 C		
RV2	L-7 C		
RV3	J-4 C		
RV4	L-6 C		
RV5	J-5 C		
RV6	K-1 C		
RV7	J-1 C		
RV8	I-4 C		
RV9	B-3 C		
RV10	C-5 C		
RV11	C-6 C		
RV12	C-6 C		
RV13	B-2 C		
RV14	A-2 C		
RV15	F-1 C		
RV16	E-1 C		
RV17	G-1 C		

**-C: COMPONENT SIDE
**-S: SOLDERING SIDE



EN-53 - COMPONENT SIDE -
1-625-394-11
DXC-M7 (J, UC)

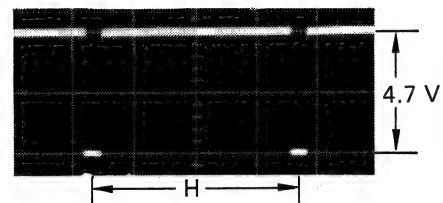
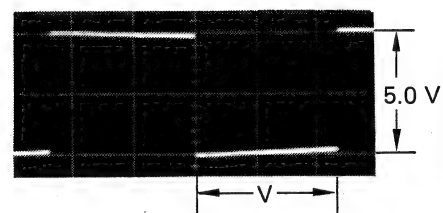
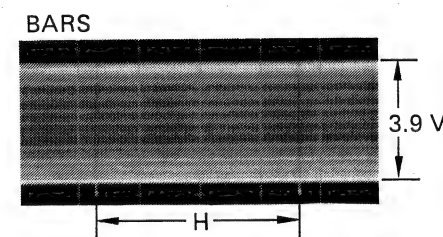
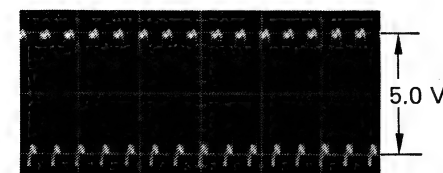


EN-53 - SOLDER SIDE -
1-625-394-11
DXC-M7 (J, UC)

SG-120 回路図

注意:

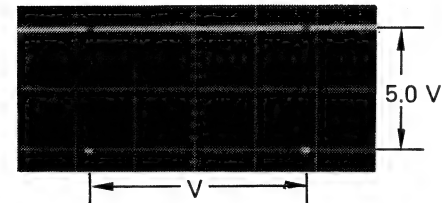
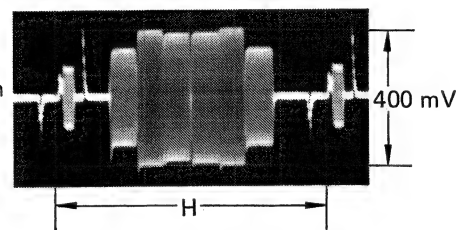
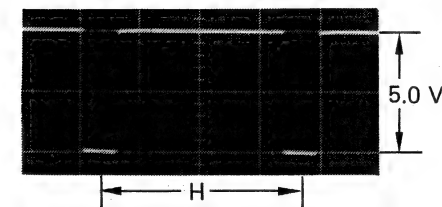
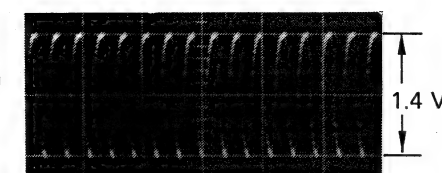
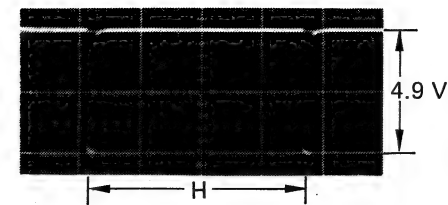
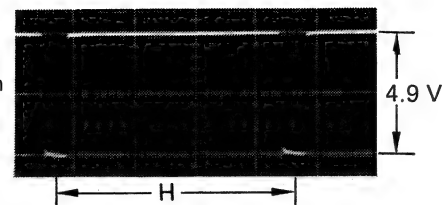
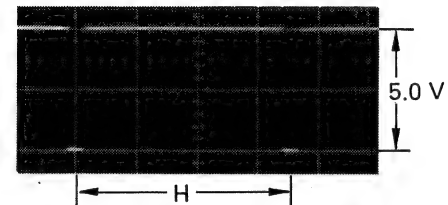
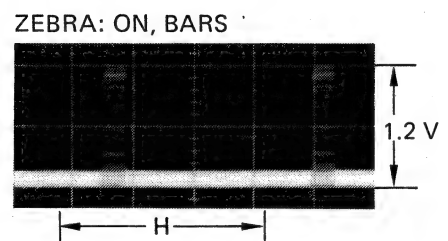
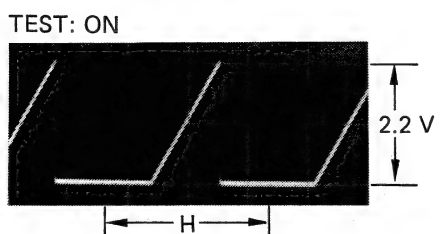
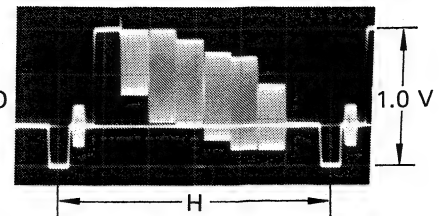
1. DC 電圧はデジタル電圧計 (入力インピーダンス $10\text{ M}\Omega$) による値。
2. () 内の DC 電圧は下記条件で測定。
 - GENLOCK IN 端子よりカラーバー信号を入力する。
3. DC 電圧は下記条件で測定。
 - INT モードで動作させること。

IC2-13pin
SEP'ed
SYNCA28pin
FLDA7pin
BAR CKB17pin
14MHz

SG-120

NOTE:

1. All voltage are dc, measured with a digital voltmeter. (input impedance: $10\text{ M}\Omega$)
2. DC voltage in parentheses () is measured in condition below.
 - Supply a color-bar signal to the GEN LOCK IN terminal.
3. DC voltage is measured in condition below.
 - Work the camera in the INT mode.

B21pin
VDIC2-17pin
SEP'ed
SCB8pin
BLKGA28pin
SCB25pin
BFB22, B23pin
HDA21pin
SYNCA14pin
ZEBRAA5pin
TEST SAWB4pin
VBS VIDEO
IN

SG-120 BOARD (SYNC GENERATOR)

Ser.No.11611-	(UC)
31201-	(J)
40001-	(EK)
70001-	(BRZ)

SG-120 (1-625-395-14)

CN1 B-4 C
B-4 S
D1 D-4 S
D2 A-2 S
D3 B-3 S
D4 C-2 S
D5 E-2 S

E1 C-4 C
C-4 S
E2 E-1 C
E-1 S

IC1 A-2 C
A-2 S
IC2 C-1 C
C-1 S
IC3 D-2 C
E-3 C
IC4 D-4 C
D-4 S
IC5 C-3 C
C-3 S
IC6 D-2 C
A-1 S
IC7 B-3 C
B-3 S
IC8 B-2 C
C-2 C
IC9 D-2 C
D-2 S
IC10 C-3 C
C-3 S

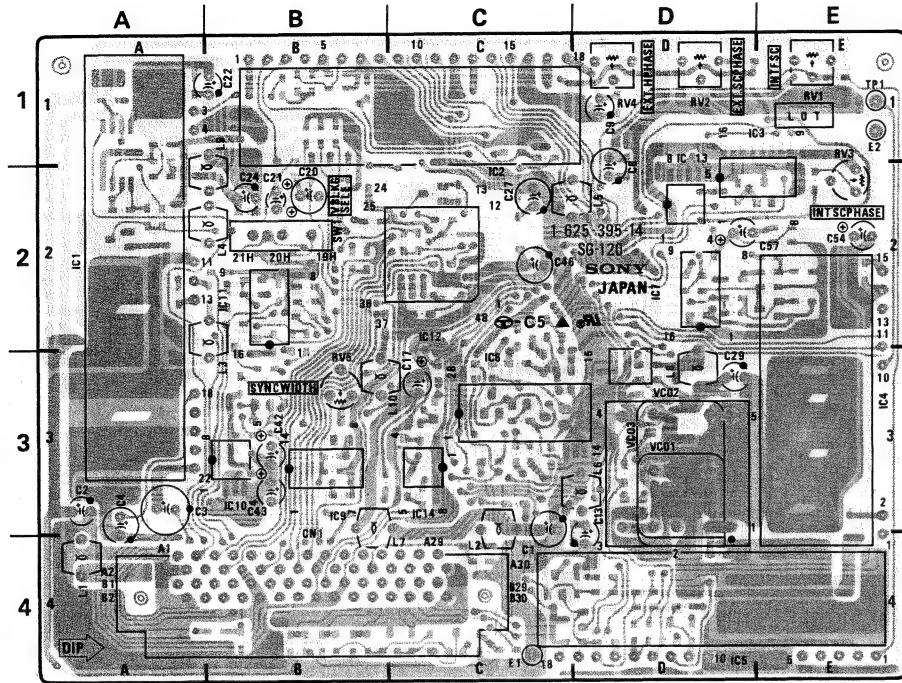
Q1 C-4 S
Q2 C-4 S
Q3 D-3 S
Q4 D-3 S
Q5 C-3 S
Q6 C-3 S
Q7 C-3 S
Q8 B-3 S
Q9 B-2 S
Q10 C-4 S
Q11 B-4 S
Q12 E-2 S

RV1 E-1 C
E-1 S
RV2 D-1 C
D-1 S
RV3 E-2 C
E-2 S
RV4 D-1 C
D-1 S
RV5 B-3 C
B-3 S

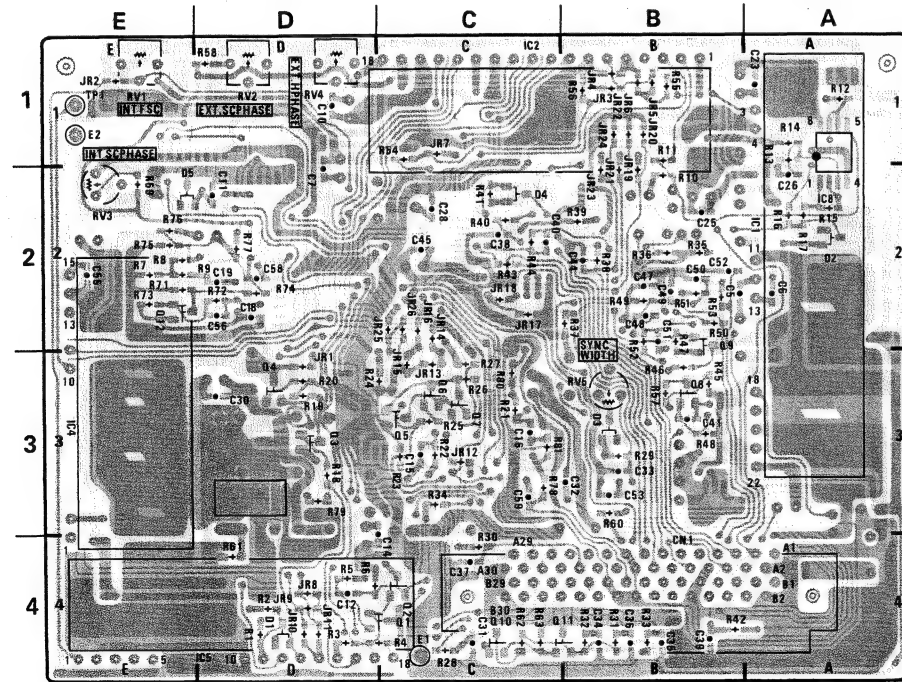
SW1 B-2 C
TP1 E-1 C
E-1 S

VCO1 D-3 C
VCO2 D-3 C
VCO3 D-3 C

*-C: COMPONENT SIDE
*-S: SOLDERING SIDE



SG-120 - COMPONENT SIDE -
1-625-395-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

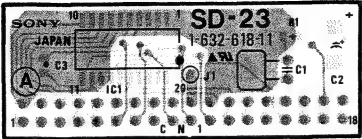


SG-120 - SOLDER SIDE -
1-625-395-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

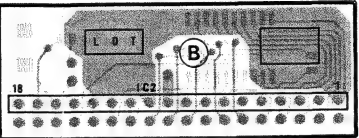
SG-120 SD-23

SD-23 BOARD

Ser.No.12961-	(UC)
31411-	(J)
44061-	(EK)



SD-23 - COMPONENT SIDE -
1-632-618-11
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



SD-23 - SOLDER SIDE -
1-632-618-11
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



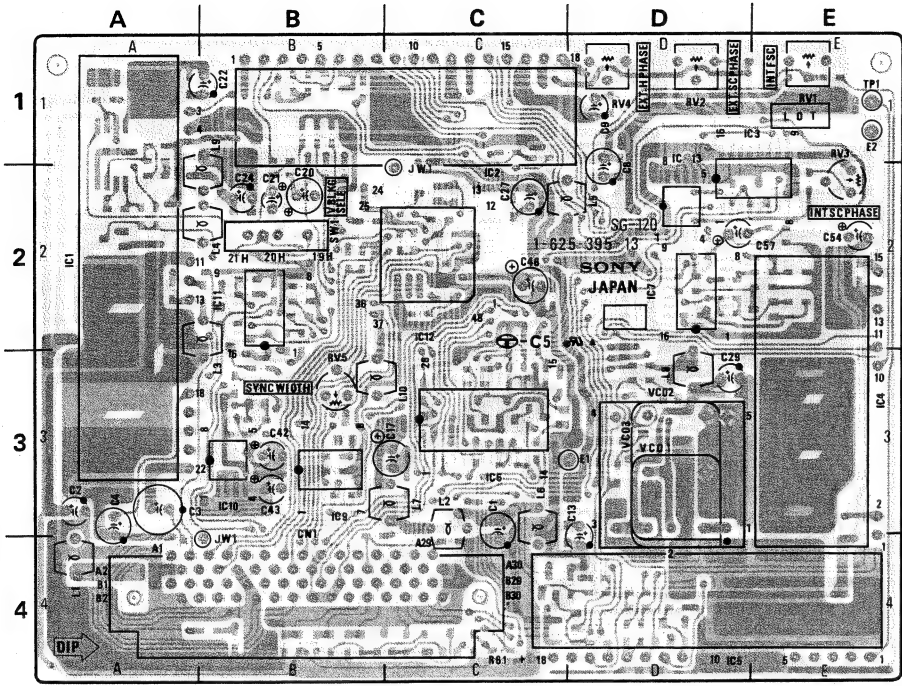
SG-120 BOARD (SYNC GENERATOR)

Ser.No.11351-11610 (UC)

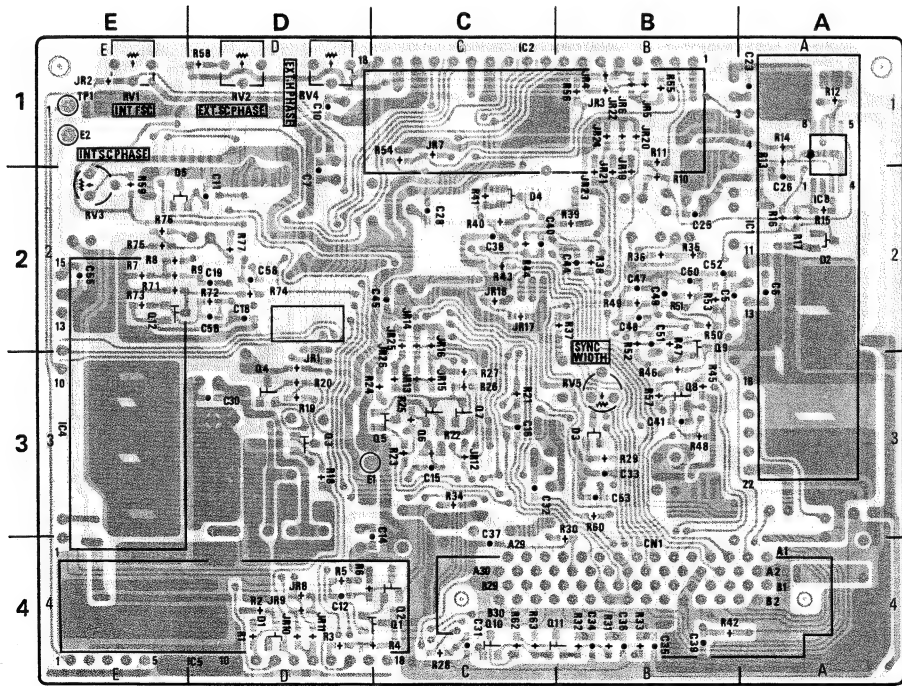
SG-120 (1-625-395-13)

- CN1 B-4 C
B-4 S
- D1 D-4 S
- D2 A-2 S
- D3 B-3 S
- D4 C-2 S
- D5 E-2 S
- E1 D-3 C
D-3 S
- E2 E-1 C
E-1 S
- IC1 A-2 C
A-2 S
- IC2 C-1 C
C-1 S
- IC3 D-2 C
- IC4 E-3 C
E-3 S
- IC5 D-4 C
D-4 S
- IC6 C-3 C
- IC7 D-2 C
- IC8 A-1 S
- IC9 B-3 C
- IC10 B-3 C
- IC11 B-2 C
- IC12 C-2 C
- IC13 D-2 C
- Q1 C-4 S
- Q2 C-4 S
- Q3 D-3 S
- Q4 D-3 S
- Q5 C-3 S
- Q6 C-3 S
- Q7 C-3 S
- Q8 B-3 S
- Q9 B-2 S
- Q10 C-4 S
- Q11 B-4 S
- Q12 E-2 S
- RV1 E-1 C
E-1 S
- RV2 D-1 C
D-1 S
- RV3 E-2 C
E-2 S
- RV4 D-1 C
D-1 S
- RV5 B-3 C
B-3 S
- SW1 B-2 C
- TP1 E-1 C
E-1 S
- VCO1 D-3 C
- VCO2 D-3 C
- VCO3 D-3 C

*-C: COMPONENT SIDE
*-S: SOLDERING SIDE



SG-120 - COMPONENT SIDE -
1-626-395-13
DXC-M7 (J, UC)



SG-120 - SOLDER SIDE -
1-626-395-13
DXC-M7 (J, UC)

SG-120 BOARD (SYNC GENERATOR)

Ser.No. 10701-11350 (UC)
30551-31200 (J)

SG-120 (1-625-395-12)

CN1 B-4 C
B-4 S

D1 D-4 S
D2 A-2 S
D3 B-3 S
D4 C-2 S
D5 E-2 S

E1 D-3 C
D-3 S
E2 E-1 C
E-1 S

IC1 A-2 C
A-2 S

IC2 C-1 C
C-1 S

IC3 D-2 C
D-2 S

IC4 E-3 C
E-3 S

IC5 E-4 S
E-4 C

IC6 C-3 C
C-3 S

IC7 D-2 C
D-2 S

IC8 A-1 S
A-1 C

IC9 B-3 C
B-3 S

IC10 B-3 C
B-3 S

IC11 B-2 C
B-2 S

IC12 C-2 C
C-2 S

IC13 D-1 C
D-1 S

Q1 C-4 S
C-4 C

Q2 C-4 S
C-4 C

Q3 D-3 S
D-3 C

Q4 D-3 S
D-3 C

Q5 C-3 S
C-3 C

Q6 C-3 S
C-3 C

Q7 C-3 S
C-3 C

Q8 B-3 S
B-3 C

Q9 B-2 S
B-2 C

Q10 C-4 S
C-4 C

Q11 B-4 S
B-4 C

Q12 E-2 S
E-2 C

RV1 E-1 C
E-1 S

RV2 D-1 C
D-1 S

RV3 E-2 C
E-2 S

RV4 D-1 C
D-1 S

RV5 B-3 C
B-3 S

SW1 B-2 C
B-2 S

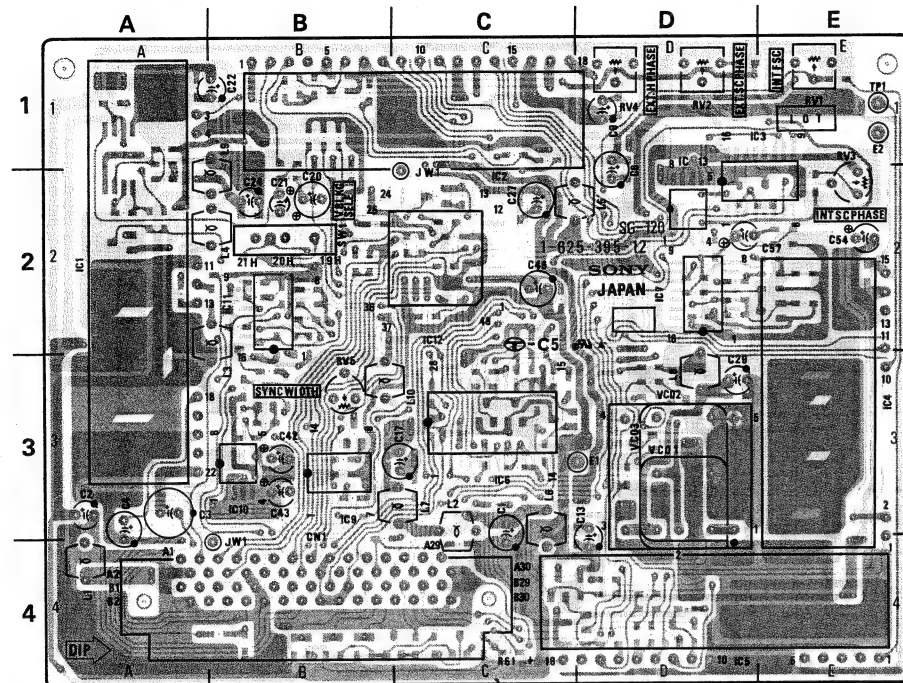
TP1 E-1 C
E-1 S

VCO1 D-3 C
D-3 S

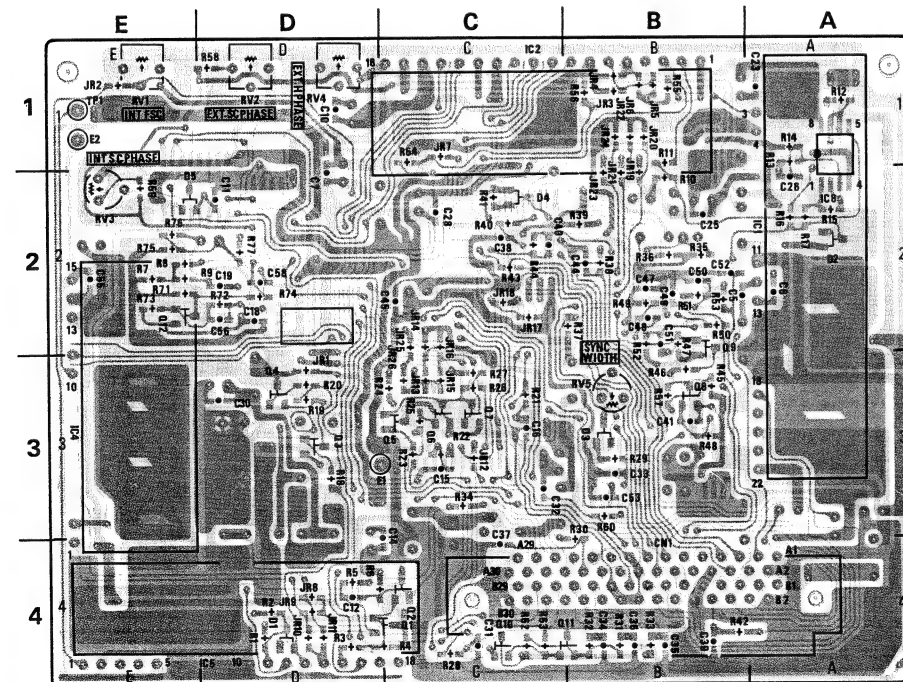
VCO2 D-3 C
D-3 S

VCO3 D-3 C
D-3 S

**-C: COMPONENT SIDE
**-S: SOLDERING SIDE



SG-120 - COMPONENT SIDE -
1-625-395-12
DXC-M7 (J, UC)



SG-120 - SOLDER SIDE -
1-625-395-12
DXC-M7 (J, UC)

Ser.No. 10001-10700 (UC)
30001-30550 (J)

SG-120 (1-625-395-11)

CN1 B-3 C
B-4 S

D1 D-4 S
D2 A-2 S
D3 B-3 S
D4 C-2 S
D5 E-2 S

E1 D-3 C
E-1 C
E-1 S

IC1 A-2 C
A-2 S

IC2 C-2 C
C-1 S

IC4 E-3 C
E-3 S

IC5 E-4 S
E-4 C

IC6 C-3 C
C-3 S

IC7 D-2 C
D-2 S

IC8 A-2 S
A-2 C

IC9 B-3 C
B-3 S

IC10 B-3 C
B-3 S

IC11 B-2 C
B-2 S

IC13 D-1 C
D-1 S

Q1 C-4 S
C-4 C

Q2 C-4 S
C-4 C

Q3 D-3 S
D-3 C

Q4 D-3 S
D-3 C

Q5 C-3 S
C-3 C

Q6 C-3 S
C-3 C

Q7 C-3 S
C-3 C

Q8 B-3 S
B-3 C

Q9 B-2 S
B-2 C

Q10 C-4 S
C-4 C

Q11 B-4 S
B-4 C

Q12 E-2 S
E-2 C

RV1 E-1 C
E-1 S

RV2 D-1 C
D-1 S

RV3 E-1 C
E-1 S

RV4 E-2 S
E-2 C

RV5 B-3 C
B-3 S

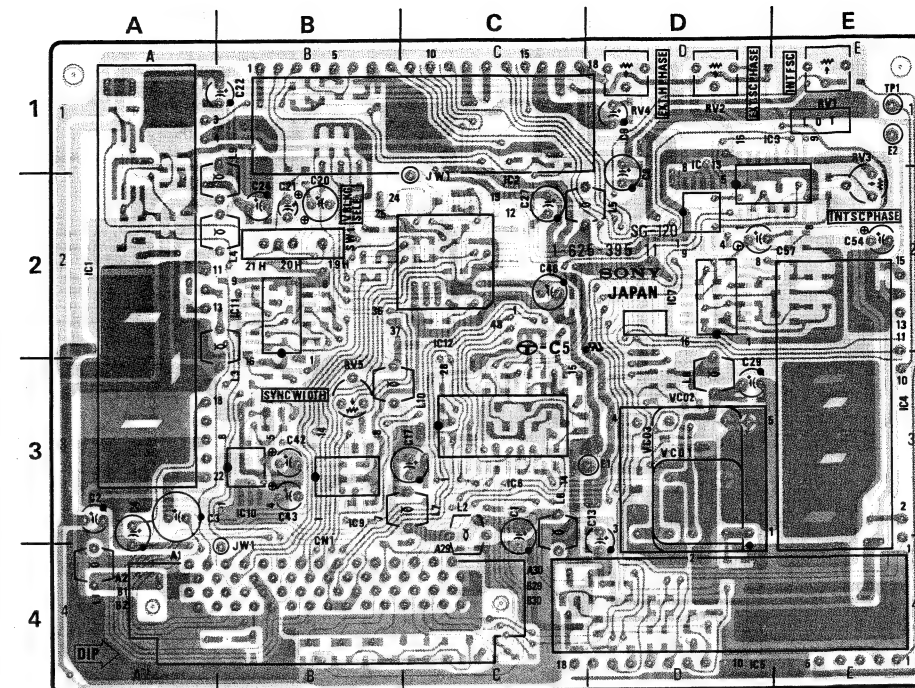
TP1 E-1 C
E-1 S

VCO1 D-3 C
D-3 S

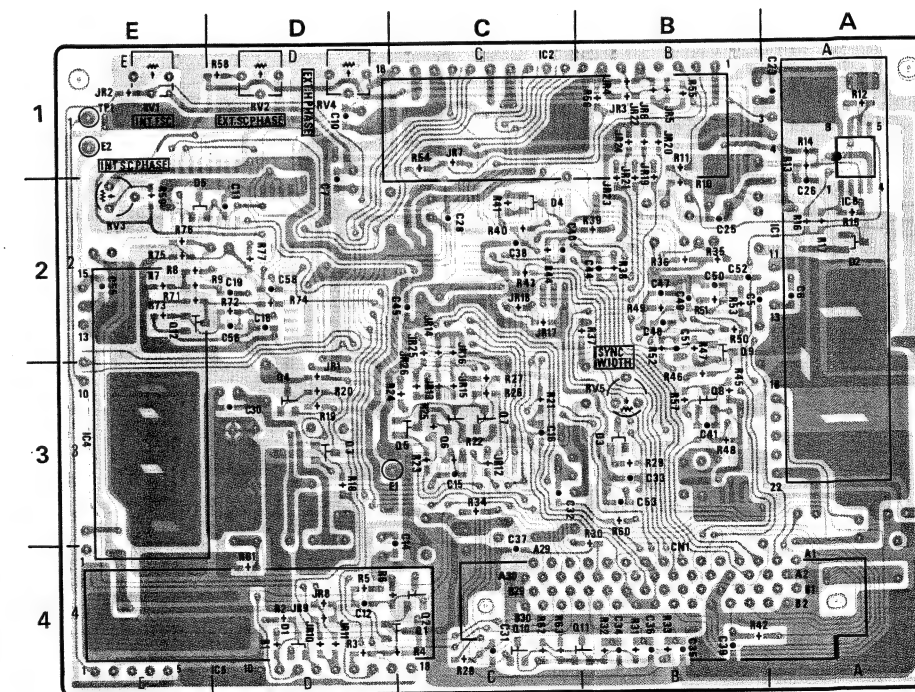
VCO2 D-3 C
D-3 S

VCO3 D-3 C
D-3 S

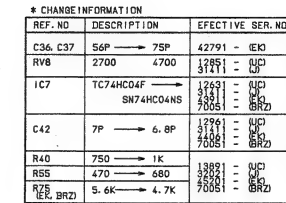
**-C: COMPONENT SIDE
**-S: SOLDERING SIDE



SG-120 - COMPONENT SIDE -
1-625-395-11
DXC-M7 (J, UC)

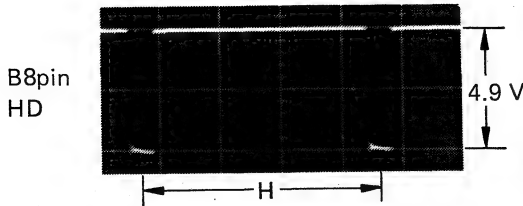
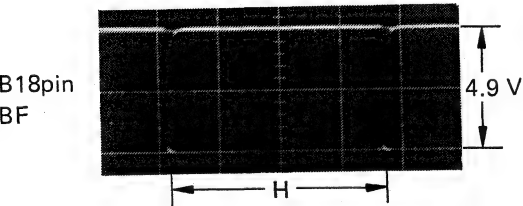
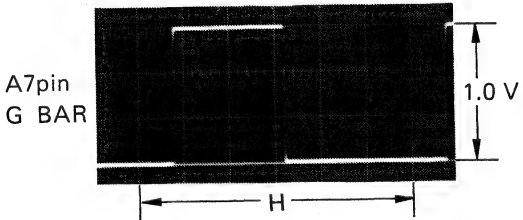
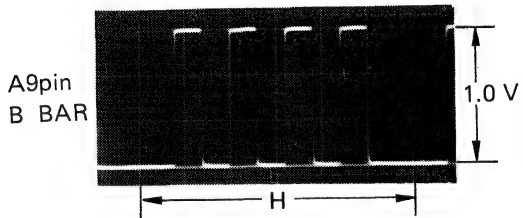


SG-120 - SOLDER SIDE -
1-625-395-11
DXC-M7 (J, UC)



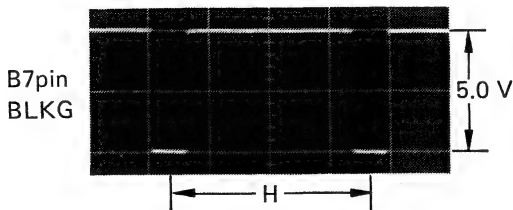
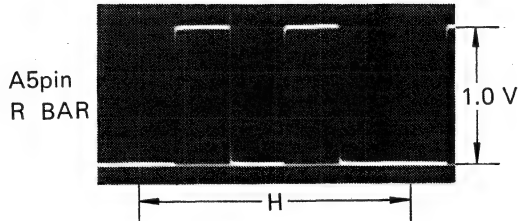
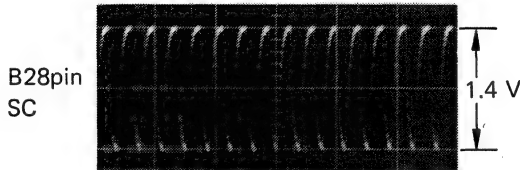
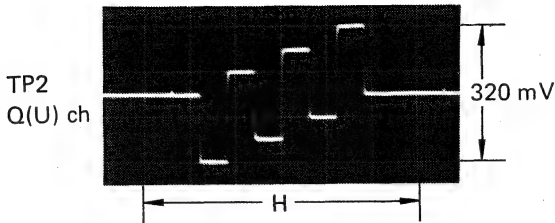
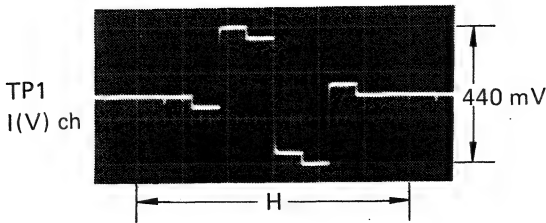
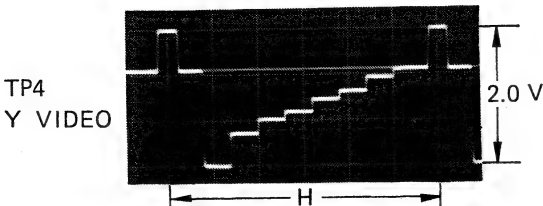
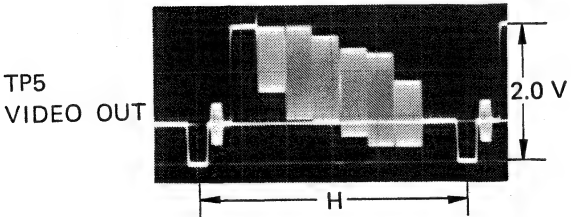
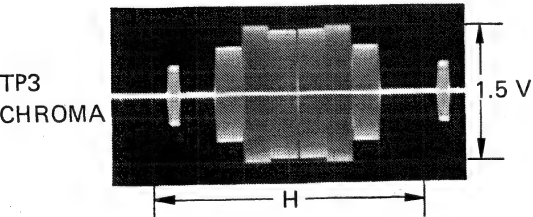
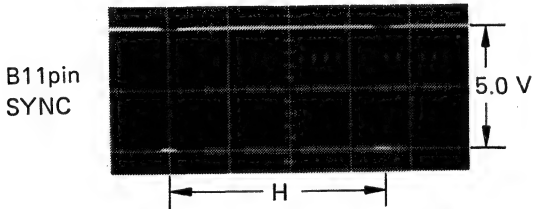
EN-53 回路図

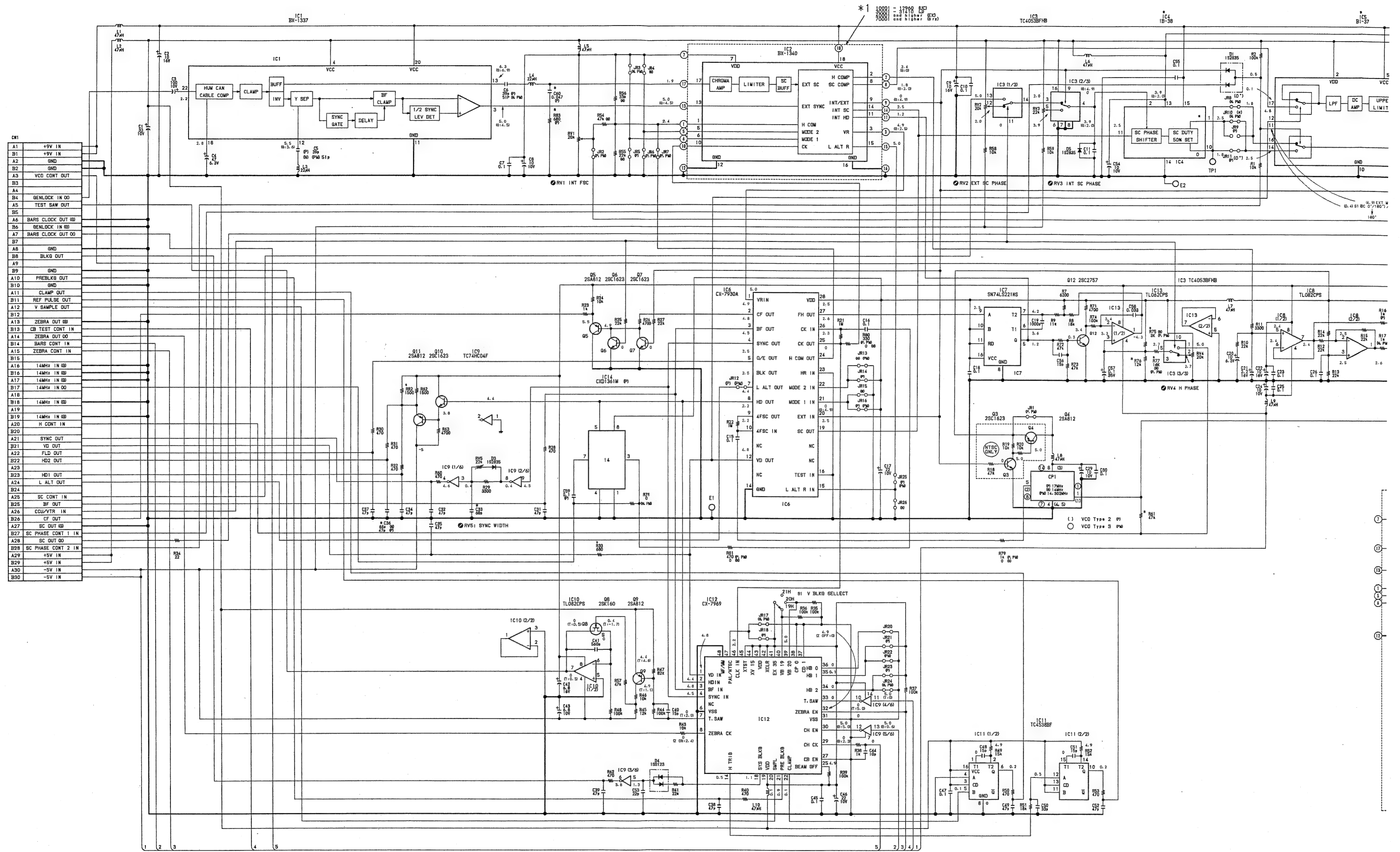
- 注意:
- DC 電圧はデジタル電圧計 (入力インピーダンス 10 MΩ) による値。
 - 波形写真及び DC 電圧は下記条件で測定。
 - OUTPUT スイッチ → BARS/DCC OFF 位置
 - S1 MODE スイッチ/EN-53 基板 → ENC 位置
 - S3 (COLOR/BW) スイッチ/EN-53 基板 → B/W 位置
 - S5 (I) スイッチ/EN-53 基板 → ON 位置
 - S6 (Q) スイッチ/EN-53 基板 → ON 位置

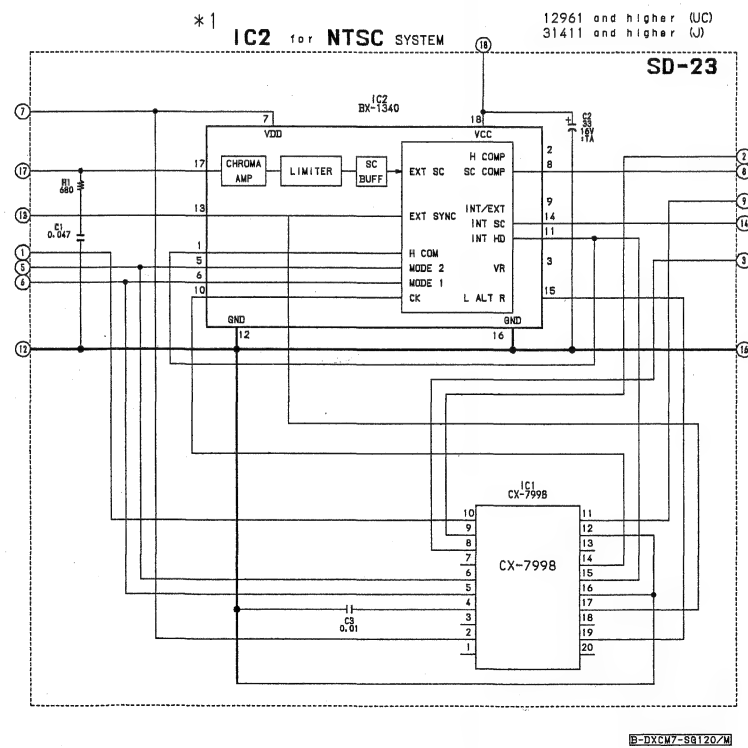
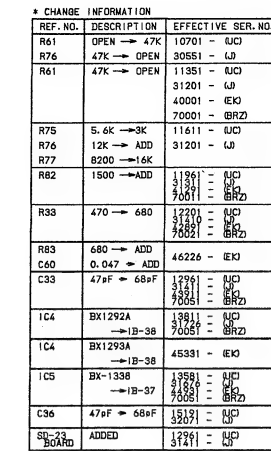


EN-53

- NOTE:
- All voltage are dc, measured with a digital voltmeter. (input impedance: 10MΩ)
 - All waveforms are taken and DC voltage is measured in condition below.
 - Set camera OUTPUT selector to BARS/DCC OFF position.
 - Set camera S1 MODE /EN-53 board to ENC position.
 - Set camera S3 (COLOR/BW)/EN-53 board to B/W position.
 - Set camera S5 (I)/EN-53 board to ON position.
 - Set camera S6 (Q)/EN-53 board to ON position.







AT-46 BOARD (AUTO CONTROL)

Ser.No.10401- (UC)
30351- (J)
40001- (EK)
70001- (BRZ)

AT-46

AT-46

AT-46 (1-625-396-12)

CN1	B-4 C	S1	A-1 C
	B-4 S	S2	A-1 S
		S3	B-1 C
			B-1 S
			A-1 C
			A-1 S
D1	D-4 C	TP1	D-4 C
D2	D-3 C		D-4 S
D3	D-3 S		
D4	D-1 S		
D5	D-2 S		
D8	C-4 S		
D9	C-4 C		
D11	D-1 S		
D12	C-1 S		
D13	D-1 S		
D15	D-3 C		
D20	B-1 S		

E1 A-1 C
A-1 S

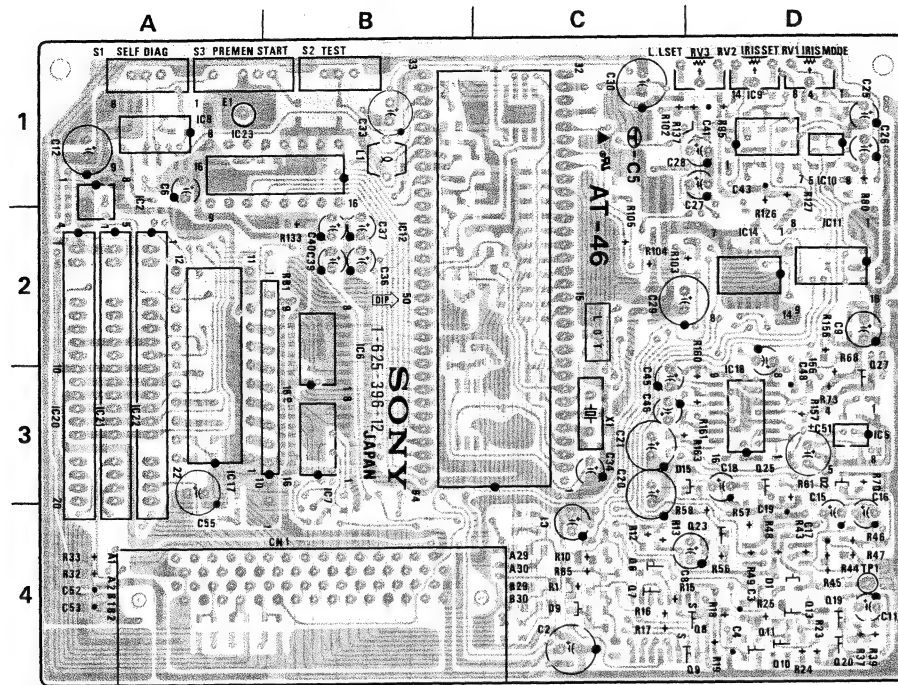
IC1 C-4 S
IC2 A-1 C
IC3 D-4 S
IC4 C-1 S
IC5 D-3 C
IC6 B-2 C
IC7 B-3 C
IC8 A-1 C
IC9 D-1 C
IC10 D-1 C
IC11 D-2 C
IC12 B-2 C
IC13 C-2 S
IC14 D-2 C
IC16 C-3 S
IC17 A-3 C
IC18 A-3 S
IC19 D-3 C
IC20 A-3 C
IC21 A-3 C
IC22 A-3 C
IC23 A-1 C
B-1 S

Q1 C-4 S
Q2 C-4 S
Q3 C-4 S
Q4 C-4 S
Q6 C-4 C
Q7 C-4 C
Q8 D-4 C
Q9 D-4 C
Q10 D-4 C
Q11 D-4 C
Q12 D-4 S
Q13 D-4 C
Q14 D-4 S
Q18 D-4 S
Q19 D-4 C
Q20 D-4 C
Q21 D-4 S
Q22 D-4 S
Q23 D-4 C
Q24 D-3 S
Q25 D-3 C
Q26 D-3 S
Q27 D-3 C
Q28 D-2 S
Q31 C-2 S
Q32 C-2 S
Q34 B-2 S
Q35 C-1 S

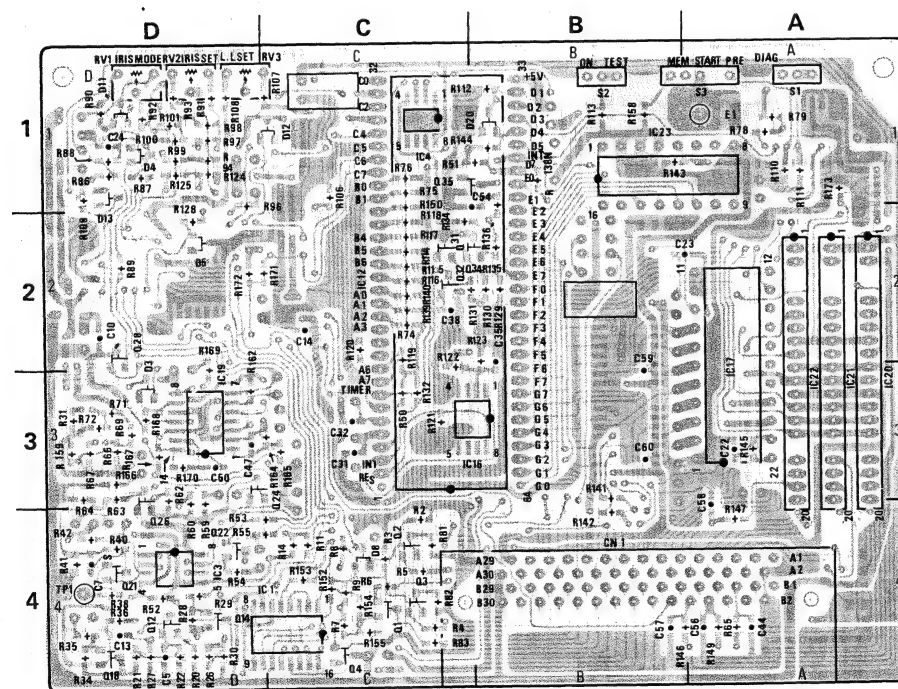
RB1 B-2 C
RP1 B-2 C

RV1 D-1 S
RV2 D-1 C
D-1 S
RV3 D-1 C
C-1 S

**-C: COMPONENT SIDE
**-S: SOLDERING SIDE



AT-46 - COMPONENT SIDE -
1-625-396-12
DXC-M7 (J, UC)



AT-46 - SOLDER SIDE -
1-625-396-12
DXC-M7 (J, UC)

AT-46 (1-625-396-11)

CN1	B-4 C	S1	A-1 C
	B-4 S	S2	A-1 S
		S3	B-1 C
			B-1 S
			A-1 C
			A-1 S
D1	D-4 C	TP1	D-4 C
D2	D-3 C		
D3	D-2 S		
D4	D-1 S		
D5	D-2 S		
D8	C-4 S		
D11	D-1 S		
D12	C-1 S		
D13	D-2 S		
D15	D-3 C		
D20	B-1 S		

E1 A-1 C
A-1 S

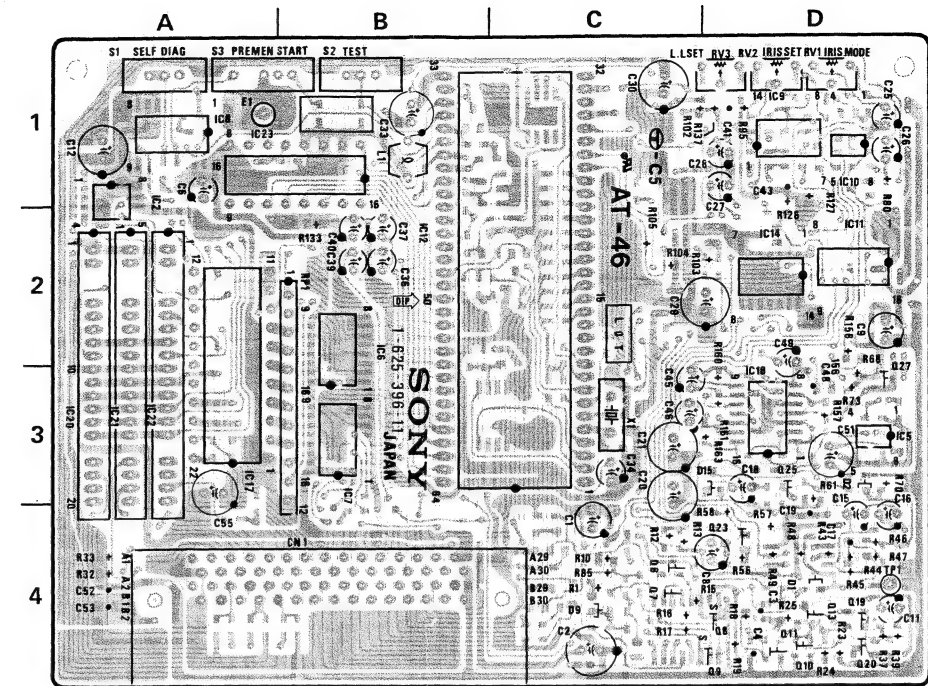
IC1 C-4 S
IC2 A-1 C
IC3 D-4 S
IC4 C-1 S
IC5 D-3 C
IC6 B-2 C
IC7 B-3 C
IC8 A-1 C
IC9 D-1 C
IC10 D-1 C
IC11 D-2 C
IC12 B-2 C
IC13 C-2 S
IC14 D-2 C
IC16 C-3 S
IC17 A-3 C
A-3 S
IC18 D-3 C
IC20 A-3 C
A-3 S
IC21 A-3 C
A-3 S
IC22 A-3 C
A-3 S
IC23 A-1 C
B-1 S

Q1 C-4 S
Q2 C-4 S
Q3 C-4 S
Q4 C-4 S
Q6 C-4 C
Q7 C-4 C
Q8 D-4 C
Q9 D-4 C
Q10 D-4 C
Q11 D-4 C
Q12 D-4 S
Q13 D-4 C
Q14 D-4 S
Q18 D-4 S
Q19 D-4 C
Q20 D-4 C
Q21 D-4 S
Q22 D-4 S
Q23 D-4 C
Q24 C-3 S
Q25 D-3 C
Q26 D-4 S
Q27 D-3 C
Q28 D-2 S
Q31 C-2 S
Q32 C-2 S
Q34 B-2 S
Q35 C-1 S

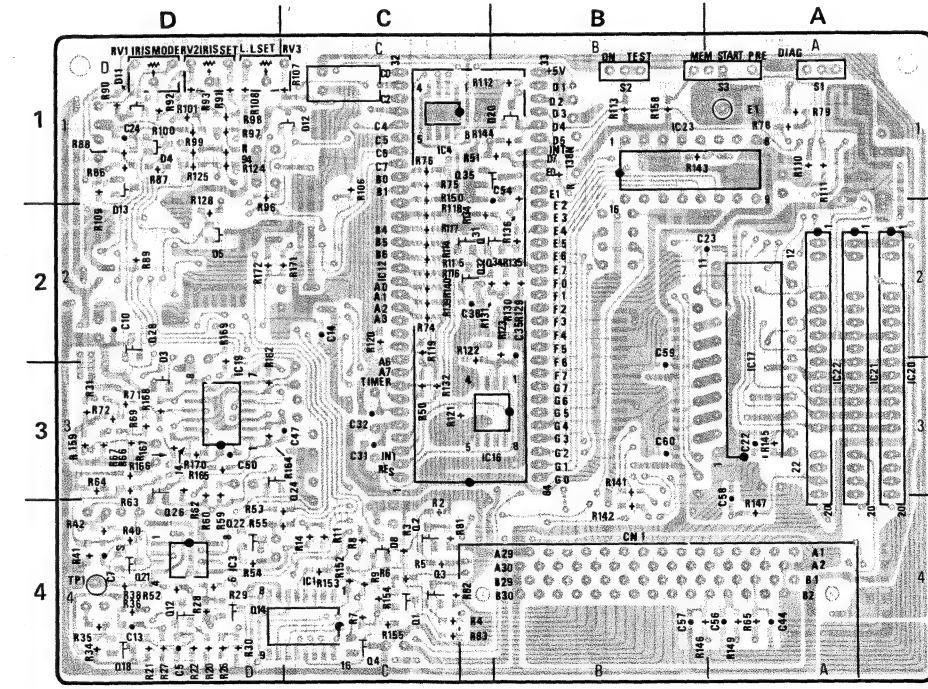
RP1 B-2 C
RV1 D-1 S
RV2 D-1 C
D-1 S
RV3 D-1 C
C-1 S

**-C: COMPONENT SIDE
**-S: SOLDERING SIDE

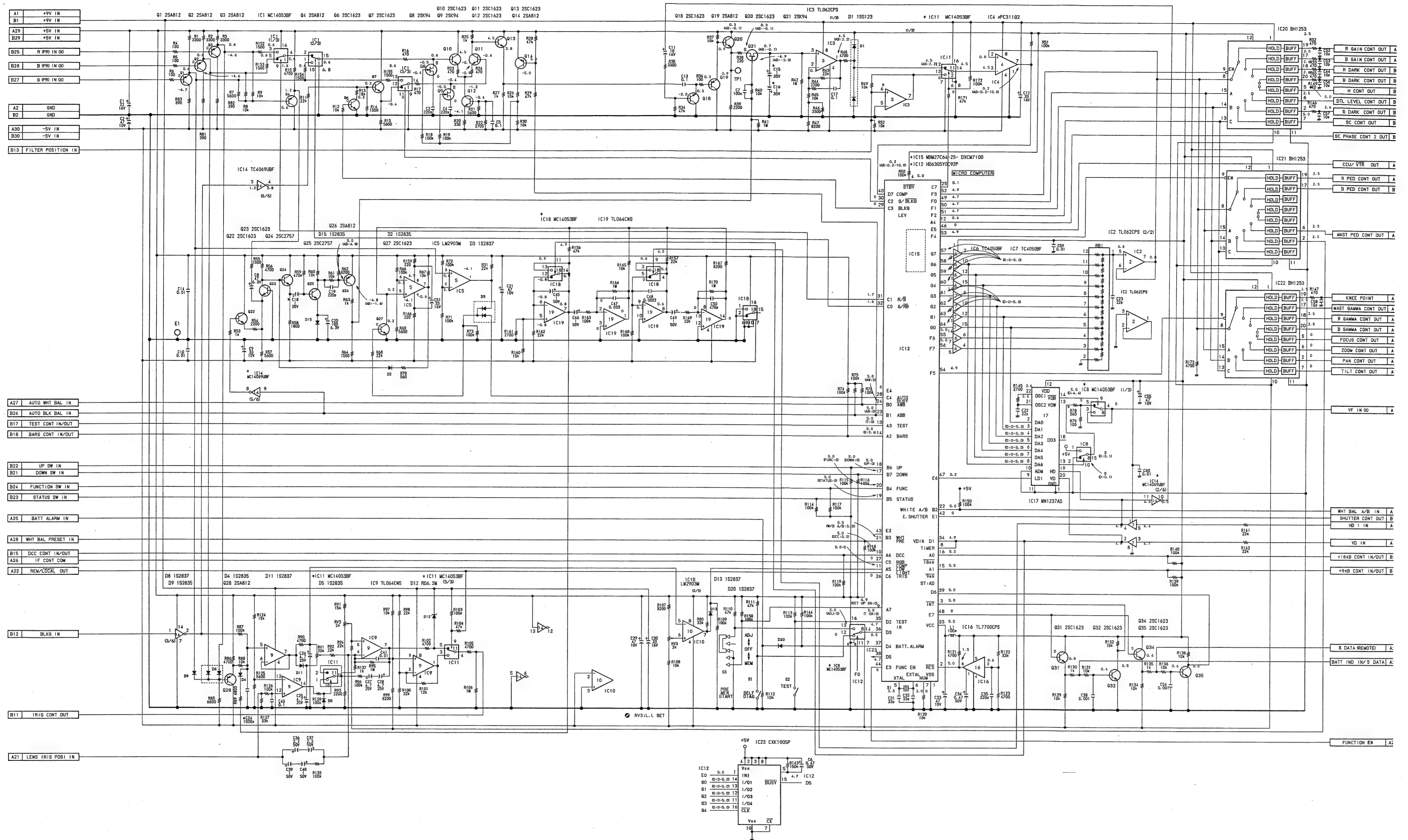
Ser.No.10001- 10400 (UC)
30001- 30350 (J)

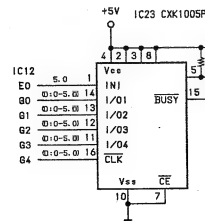


AT-46 - COMPONENT SIDE -
1-625-396-11
DXC-M7 (J, UC)



AT-46 - SOLDER SIDE -
1-625-396-11
DXC-M7 (J, UC)





* CHANGE INFORMATION			
REF. NO.	DESCRIPTION	EFFECTIVE	SERIAL NO.
IC12	HD6305YO → HD6305YUO2P NBN27C6-25	10401 → EJO 30501 → EJO 40001 → EJO	ICJ ICJ ICJ
IC15	→ DELETE	70001 →	IBRZ
C15, I6	1/16V → 1/35V	10131 →	ICJ
		30171 →	ICJ
		40001 →	ICJ
		70001 →	IBRZ
R78	390 560	11951 →	ICJ
		31201 →	ICJ
		40601 →	ICJ
		70011 →	IBRZ
C24	1000P	12351 →	ICJ
		31411 →	ICJ
		43411 →	ICJ
	DELETE	70041 →	IBRZ
IC1, 0	TC4053BFB	13181 →	ICJ
11, 18	→ MC14053BF	31421 →	ICJ
	TC4069UBF	40651 →	ICJ
IC14	→ MC14069UBF	70051 →	IBRZ

PS-141 BOARD (POWER SUPPLY)

Ser.No. 11351-12450 (UC)
31201-31410 (J)
40001-43910 (EK)
70001-70040 (BRZ)

PS-141 (1-625-398-13)

CN1 D-1 C
D-1 S TP12 K-3 C
TP13 K-5 C

D1 C-4 C
D2 F-5 C
D3 E-3 S
D4 C-3 S
D5 F-3 C
D6 A-7 S
D7 B-6 C
D8 F-7 C
D9 F-7 C
D10 E-7 C
D11 E-7 C
D12 E-7 C
D13 E-6 C
D14 F-7 C
D15 F-6 C
D16 G-8 C
D17 F-7 C
D18 E-8 C
D19 F-8 C

E1 A-2 C

IC1 E-4 S
IC2 G-4 S
IC3 J-1 S
IC4 I-4 S
IC5 J-8 S
IC6 K-6 S

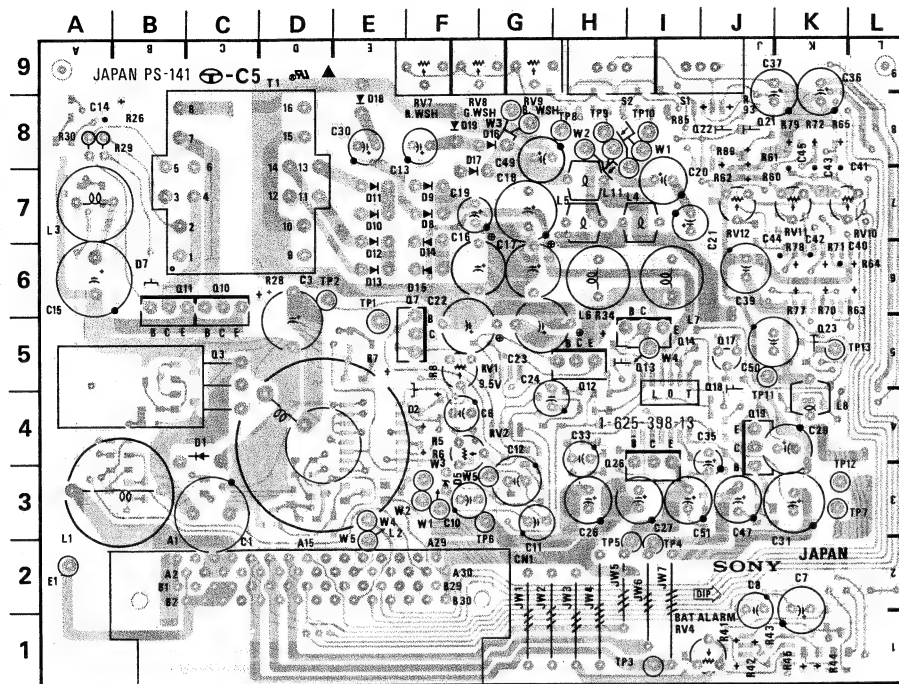
Q1 C-4 S
Q2 C-5 S
Q3 C-5 C
Q4 D-3 S
Q5 E-3 S
Q6 B-3 S
Q7 F-5 C
Q8 G-4 S
Q9 A-8 S
Q10 C-6 C
Q11 B-6 C
Q12 H-5 C
Q13 H-5 C
Q14 I-5 C
Q15 K-1 S
Q16 K-1 S
Q17 J-5 C
Q18 J-5 C
Q19 J-4 C
Q20 J-3 S
Q21 J-8 C
Q22 J-8 C
Q23 K-5 C
Q24 K-4 S
Q25 K-5 S
Q26 I-3 C
Q27 I-8 S
Q28 H-8 S
Q29 H-8 S

RV1 F-5 C
RV2 F-4 C
RV4 J-1 C
RV7 F-9 C
RV8 F-9 C
RV9 G-9 C
RV10 L-7 C
RV11 K-7 C
RV12 J-7 C

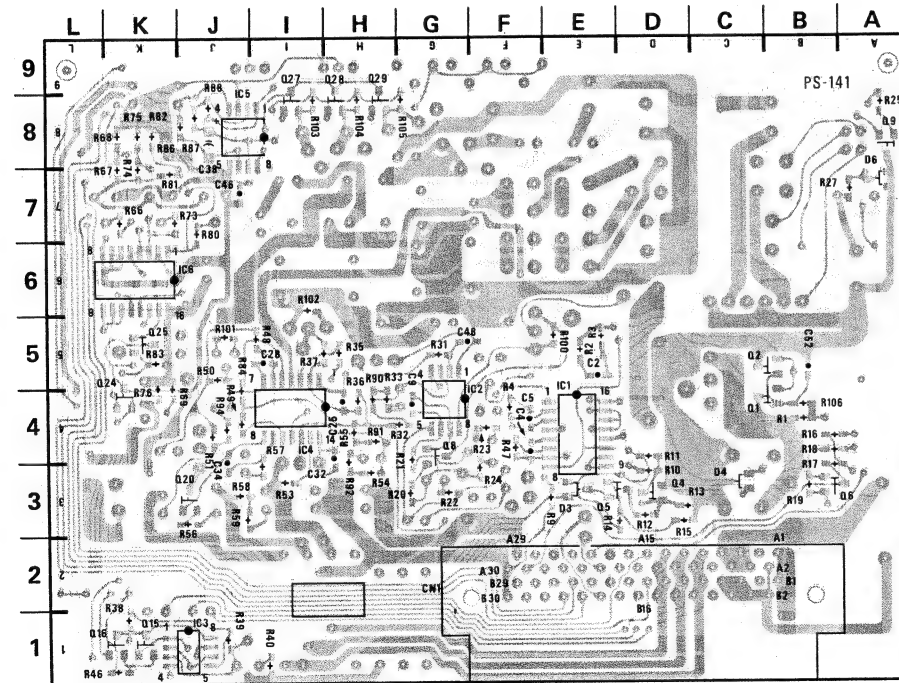
S1 I-9 C
S2 H-9 C

TP1 E-5 C
TP2 D-6 C
TP3 I-1 C
TP4 I-2 C
TP5 I-2 C
TP6 G-3 C
TP7 K-3 C
TP8 H-8 C
TP9 H-8 C
TP10 I-8 C
TP11 J-5 C

*-C: COMPONENT SIDE
*-S: SOLDER SIDE



PS-141 - COMPONENT SIDE -
1-625-398-13
DXC-M7 (J, UC)



PS-141 - SOLDER SIDE -
1-625-398-13
DXC-M7 (J, UC)

6-40 (a)

PS-141 (1-625-398-12)

CN1 D-1 C
D-1 S TP12 K-3 C
TP13 K-5 C

D1 C-4 C
D2 F-5 C
D3 E-3 S
D4 C-3 S
D5 F-3 C
D6 A-7 S
D7 B-6 C
D8 F-7 C
D9 F-7 C
D10 E-7 C
D11 E-7 C
D12 E-7 C
D13 E-6 C
D14 F-7 C
D15 F-6 C
D16 G-8 C
D17 F-7 C
D18 E-8 C
D19 F-8 C

E1 A-2 C

IC1 E-4 S
IC2 G-4 S
IC3 J-1 S
IC4 I-4 S
IC5 J-8 S
IC6 K-6 S

Q1 C-4 S
Q2 C-5 S
Q3 C-5 C
Q4 D-3 S
Q5 E-3 S
Q6 B-3 S
Q7 F-5 C
Q8 G-4 S
Q9 A-8 S
Q10 C-6 C
Q11 B-6 C
Q12 H-5 C
Q13 H-5 C
Q14 I-5 C
Q15 K-1 S
Q16 K-1 S
Q17 J-5 C
Q18 J-5 C
Q19 J-4 C
Q20 J-3 S
Q21 J-8 C
Q22 I-8 C
Q23 K-5 C
Q24 K-4 S
Q25 K-5 S
Q26 I-3 C
Q27 I-8 S
Q28 H-8 S
Q29 H-8 S

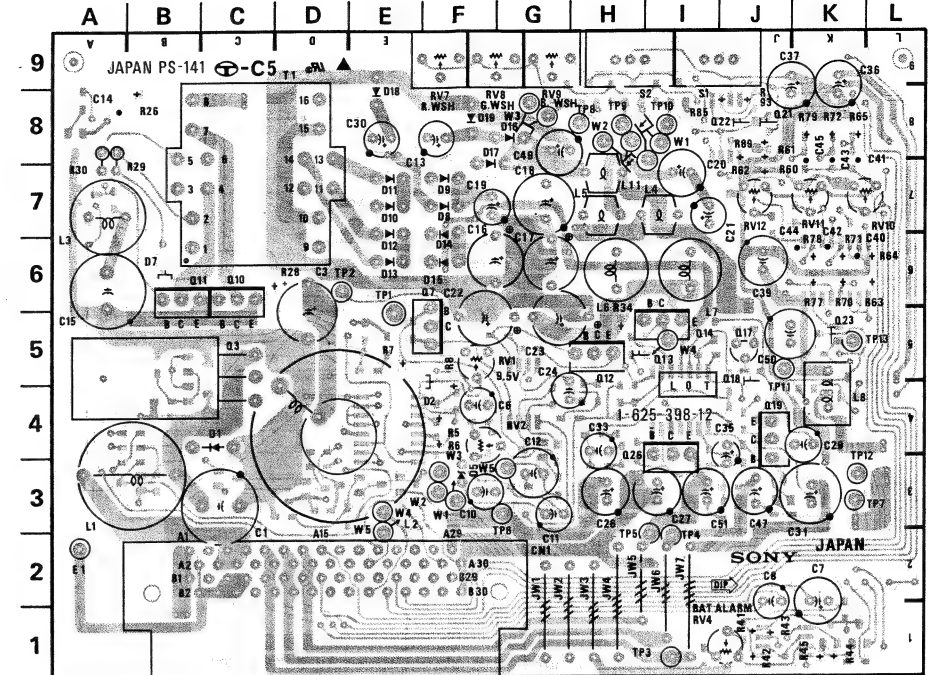
RV1 F-5 C
RV2 F-4 C
RV4 J-1 C
RV7 F-9 C
RV8 F-9 C
RV9 G-9 C
RV10 L-7 C
RV11 K-7 C
RV12 J-7 C

S1 I-9 C
S2 H-9 C

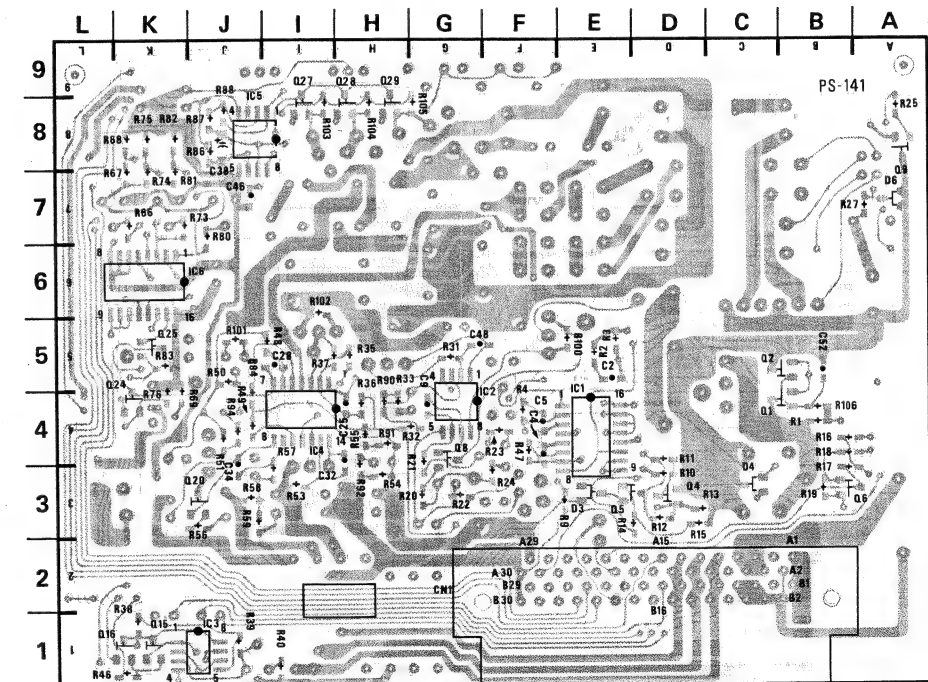
TP1 E-5 C
TP2 D-6 C
TP3 I-1 C
TP4 I-2 C
TP5 I-2 C
TP6 G-3 C
TP7 K-3 C
TP8 H-8 C
TP9 H-8 C
TP10 I-8 C
TP11 J-5 C

*-C: COMPONENT SIDE
*-S: SOLDER SIDE

Ser.No. 10401-11350 (UC)
30351-31200 (J)



PS-141 - COMPONENT SIDE -
1-625-398-12
DXC-M7 (J, UC)



PS-141 - SOLDER SIDE -
1-625-398-12
DXC-M7 (J, UC)

6-41 (a)

PS-141 (1-

CN1 G

D1 C
D2 E
D3 F
D4 C
D5 F
D6 A
D7 B
D8 E
D9 E
D10 E
D11 E
D12 E
D13 E
D18 E

E1 A

IC1 E
IC2 G
IC3 J
IC4 J
IC5 J
IC6 J

Q1 C
Q2 C
Q3 C
Q4 C
Q5 B
Q6 F
Q7 G
Q8 A
Q9 C
Q10 C
Q11 B
Q12 H
Q13 I
Q14 I
Q15 K
Q16 L
Q17 J
Q18 J
Q19 J
Q20 J
Q21 J
Q22 J
Q23 K
Q24 K
Q25 K
Q26 F
Q27 F
Q28 F
Q29 F

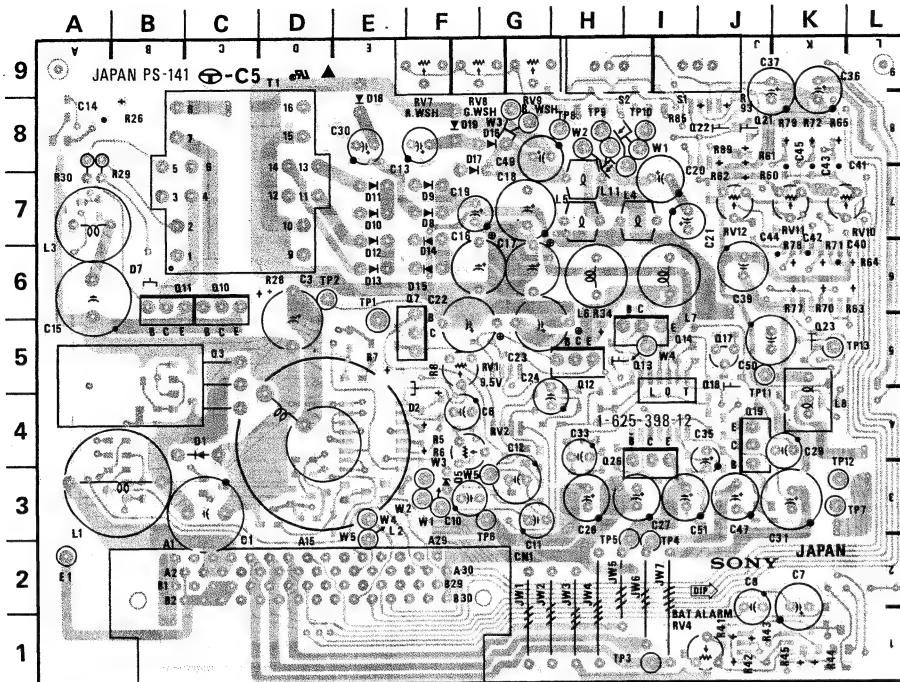
RV1 C
RV2 C
RV4 I
RV7 F
RV8 F
RV9 C
RV10 L
RV11 J
RV12 J

S1 I
S2 I

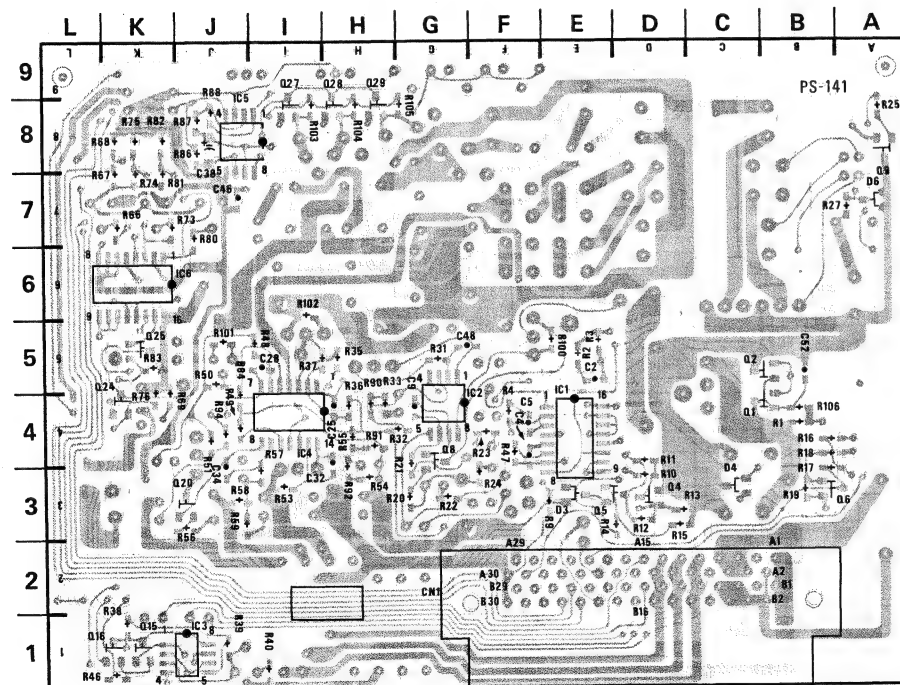
TP1 E
TP2 E
TP3 I
TP5 I
TP6 C
TP7 C
TP8 I
TP9 I
TP10 I
TP11 I
TP12 I
TP13 I

*-C: COMPONENT SIDE
*-S: SOLDER SIDE

Ser.No.10401-11350 (UC)
30351-31200 (J)



PS-141 - COMPONENT SIDE -
1-625-398-12
DXC-M7 (J, UC)



PS-141 - SOLDER SIDE -
1-625-398-12
DXC-M7 (J, UC)

PS-141 (1-625-398-11)

CN1 G-2 S

D1 C-4 C
D2 E-4 C
D3 E-3 S
D4 C-3 S
D5 F-3 C
D6 A-7 S
D7 B-6 C
D10 E-7 C
D11 E-7 C
D12 E-6 C
D13 E-6 C
D18 E-8 C

E1 A-2 C

IC1 E-4 S
IC2 G-4 S
IC3 J-1 S
IC4 I-4 S
IC5 J-8 S
IC6 J-6 S

Q1 C-4 S
Q2 C-5 S
Q3 C-5 C
Q4 D-3 S
Q5 E-3 S
Q6 B-3 C
Q7 F-6 C
Q8 G-4 S
Q9 A-7 S
Q10 C-6 C
Q11 B-6 C
Q12 H-5 C
Q13 I-5 C
Q14 I-5 C
Q15 K-1 S
Q16 L-1 S
Q17 J-5 C
Q18 J-4 C
Q19 J-4 C
Q20 J-3 S
Q21 J-8 C
Q22 I-8 C
Q23 K-5 C
Q24 K-5 S
Q25 K-5 S
Q26 H-4 C
Q27 I-9 S
Q28 H-9 S
Q29 H-9 S

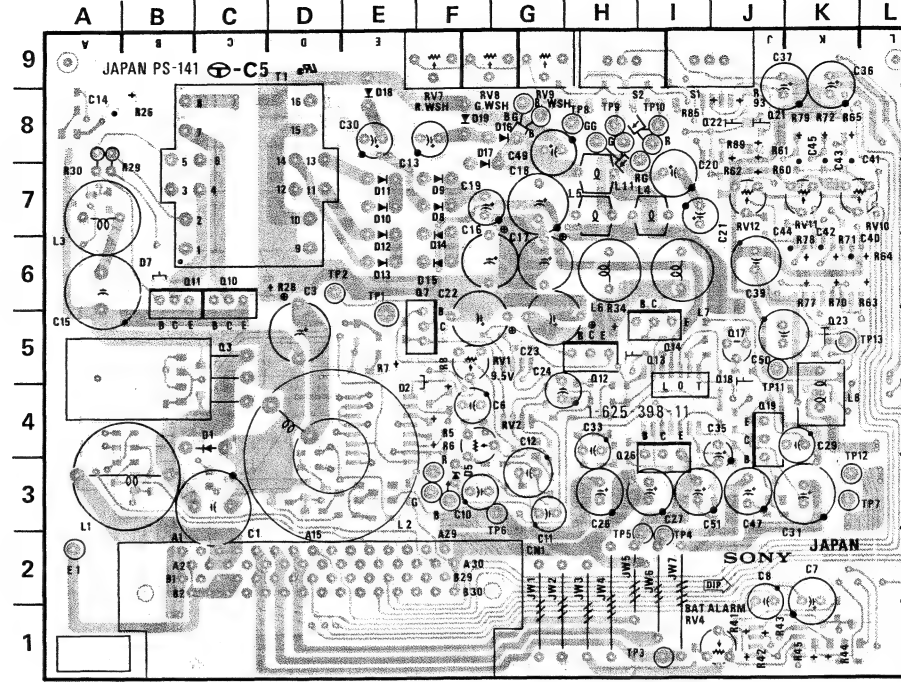
RV1 G-5 C
RV2 G-4 C
RV4 I-1 C
RV7 F-8 C
RV8 F-8 C
RV9 G-8 C
RV10 L-7 C
RV11 K-7 C
RV12 J-7 C

S1 I-8 C
S2 I-8 C

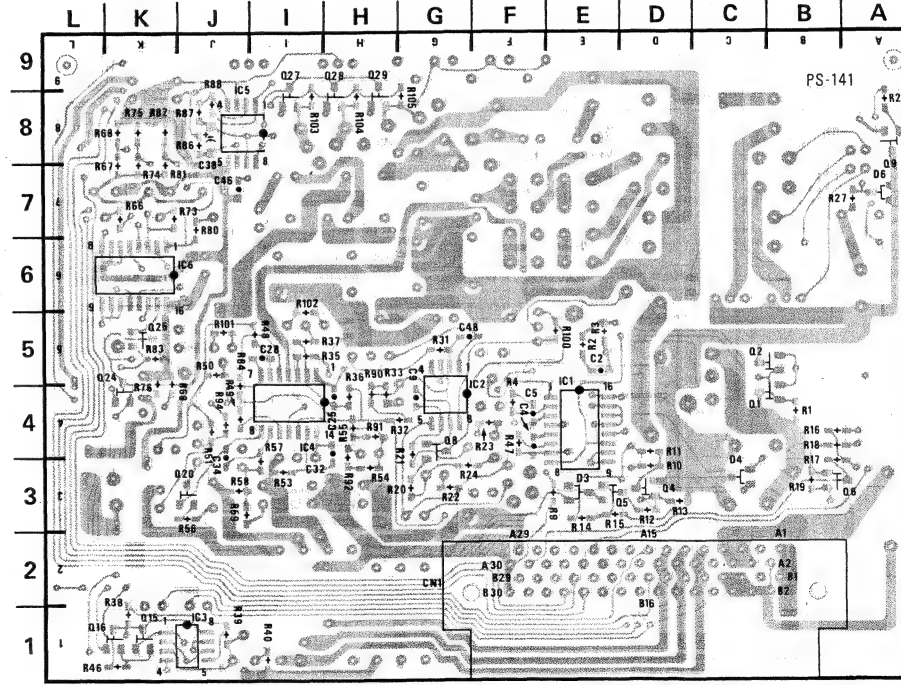
TP1 E-6 C
TP2 D-6 C
TP3 I-1 C
TP5 H-2 C
TP6 G-3 C
TP7 K-3 C
TP8 H-8 C
TP9 H-8 C
TP10 I-8 C
TP11 J-4 C
TP12 K-3 C
TP13 L-5 C

*-C: COMPONENT SIDE
*-S: SOLDER SIDE

Ser.No.10001-10400 (UC)
30001-30350 (J)



PS-141 - COMPONENT SIDE -
1-625-398-11
DXC-M7 (J, UC)



PS-141 - SOLDER SIDE -
1-625-398-11
DXC-M7 (J, UC)

1-625-398-12)

D-1 C TP12 K-3 C
D-1 S TP13 K-5 C

C-4 C
C-5 C
C-3 S
C-3 S
A-7 S
B-6 C
F-7 C
F-7 C
F-7 C
F-7 C
F-7 C
F-6 C
G-8 C
F-7 C
F-8 C
K-8 C

A-2 C

E-4 S
B-4 S
J-1 S
I-4 S
J-8 S
K-6 S

C-4 S
C-5 S
C-5 C
C-3 S
F-3 S
F-5 C
G-4 S
A-8 S
C-6 C
B-6 C
H-5 C
H-5 C
I-5 C
K-1 S
K-1 S
J-5 C
J-5 C
J-4 C
J-3 S
J-8 C
I-8 C
K-5 C
K-4 S
K-5 S
I-3 C
I-8 S
H-8 S
H-8 S

F-5 C
F-4 C
J-1 C
F-9 C
F-9 C
G-9 C
L-7 C
K-7 C
J-7 C

I-9 C
H-9 C

E-5 C
D-6 C
I-1 C
I-2 C
I-2 C
G-3 C
K-3 C
H-8 C
H-8 C
I-8 C
J-5 C

COMPONENT SIDE
SOLDER SIDE

PS-141 BOARD (POWER SUPPLY)

Ser. No. 12451-	(UC)
31411-	(J)
43911-	(EK)
70041-	(BRZ)

PS-141 (1-625-398-14)

CN1	D - 1 C
	D - 1 S
D1	C - 4 C
D2	F - 5 C
D3	E - 3 S
D4	C - 3 S
D5	F - 3 C
D6	A - 7 S
D7	B - 6 C
D8	F - 7 C
D9	F - 7 C
D10	E - 7 C
D11	E - 7 C
D12	E - 7 C
D13	E - 6 C
D14	F - 7 C
D15	F - 6 C
D16	G - 8 C
D17	F - 7 C
D18	E - 8 C
D19	F - 8 C

E1	A - 2 C
IC1	E - 4 S
IC2	G - 4 S
IC3	J - 1 S
IC4	I - 4 S
IC5	J - 8 S
IC6	K - 6 S

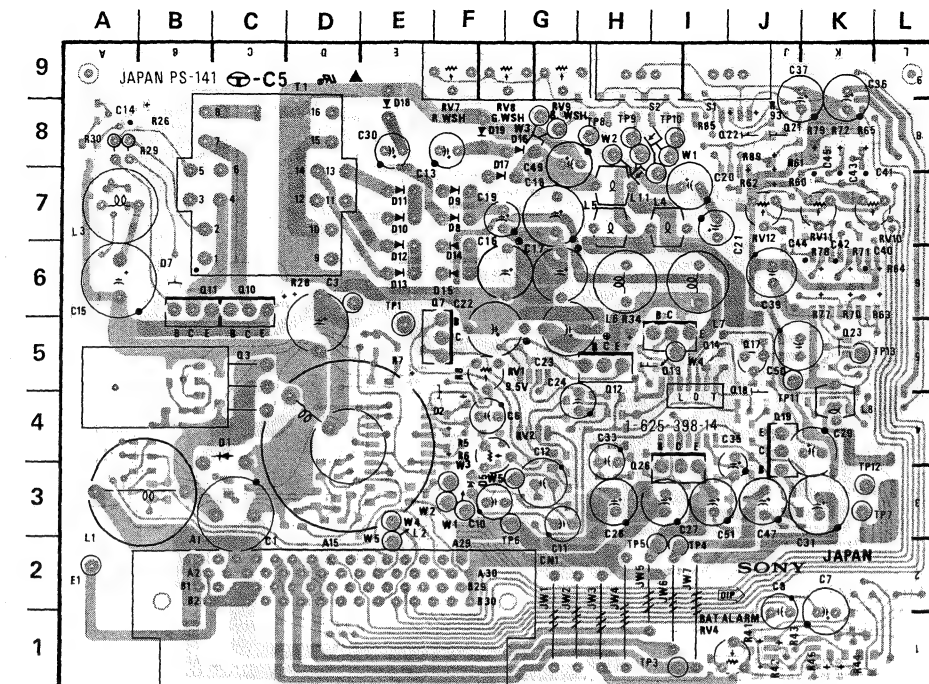
Q1	C	-	4	S
Q2	C	-	5	S
Q3	C	-	5	C
Q4	C	-	5	C
Q5	D	-	3	S
Q6	D	-	3	S
Q7	E	-	3	S
Q8	F	-	3	S
Q9	F	-	5	C
Q10	G	-	4	S
Q11	A	-	8	S
Q12	B	-	6	C
Q13	H	-	5	C
Q14	I	-	5	C
Q15	J	-	1	S
Q16	K	-	1	S
Q17	J	-	5	S
Q18	J	-	5	S
Q19	J	-	4	C
Q20	J	-	3	C
Q21	J	-	8	C
Q22	J	-	8	C
Q23	K	-	5	C
Q24	K	-	4	S
Q25	K	-	5	S
Q26	I	-	3	C
Q27	I	-	8	S
Q28	H	-	8	S
Q29	H	-	8	S

RV1	F - 5 C
RV2	F - 4 C
RV4	J - 1 C
RV7	F - 9 C
RV8	F - 9 C
RV9	G - 9 C
RV10	L - 7 C
RV11	K - 7 C
RV12	J - 7 C

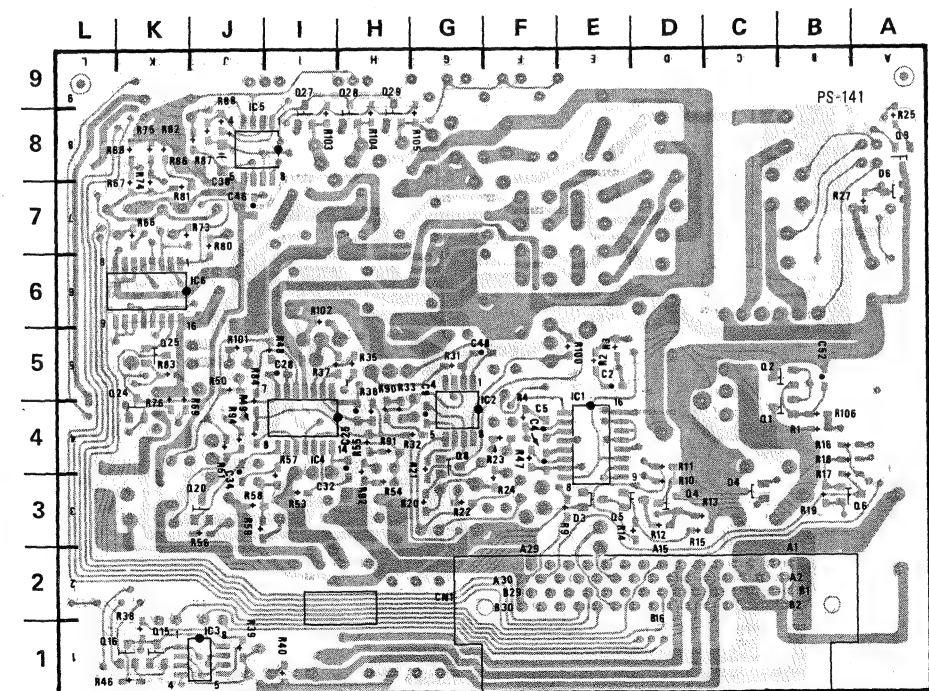
S1 I - 9 C
S2 H - 9 C

TP1	E - 5 C
TP3	I - 1 C
TP4	I - 2 C
TP5	I - 2 C
TP6	G - 3 C
TP7	K - 3 C
TP8	H - 8 C
TP9	H - 8 C
TP10	I - 8 C
TP11	J - 5 C
TP12	K - 3 C
TP13	K - 5 C

- C; COMPONENT SIDE
- S; SOLDERIG SIDE



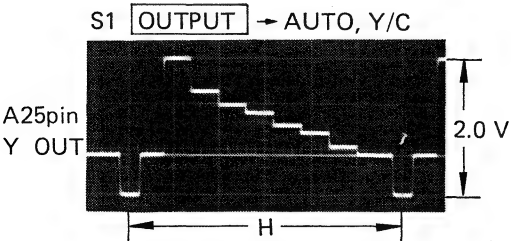
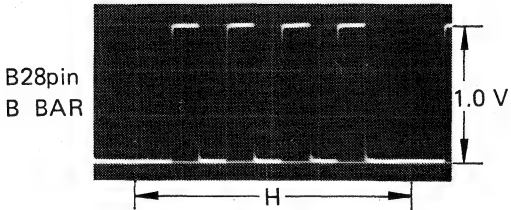
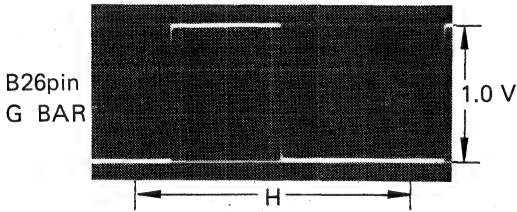
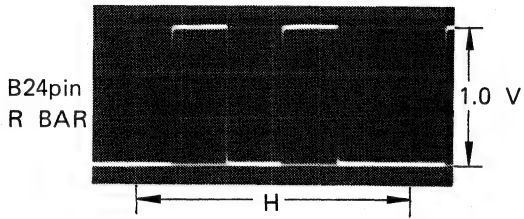
PS-141 — COMPONENT SIDE —
1-625-398-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



PS-141 - SOLDER SIDE -
1-625-398-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

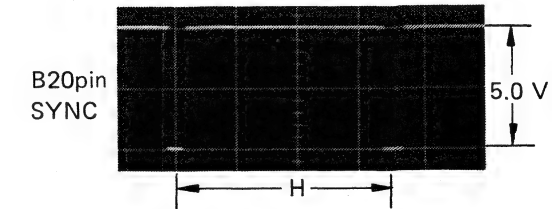
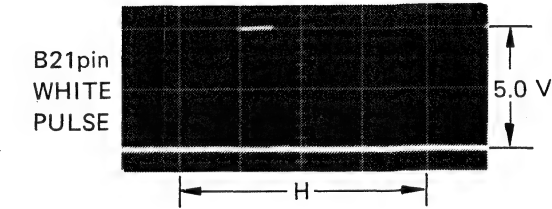
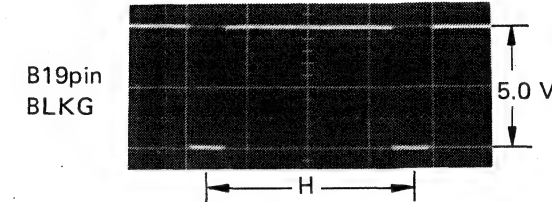
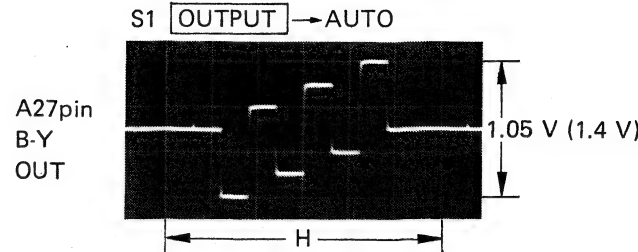
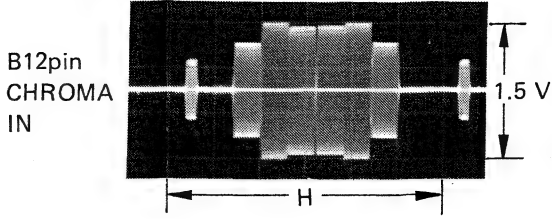
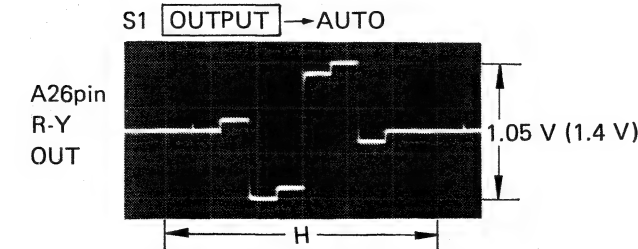
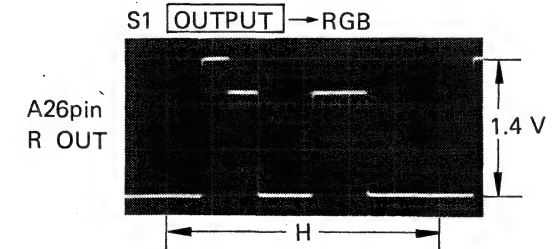
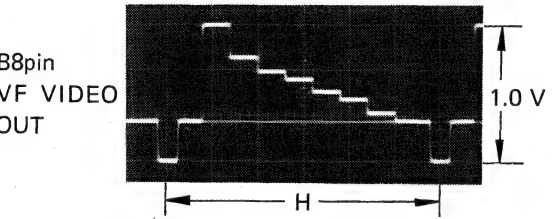
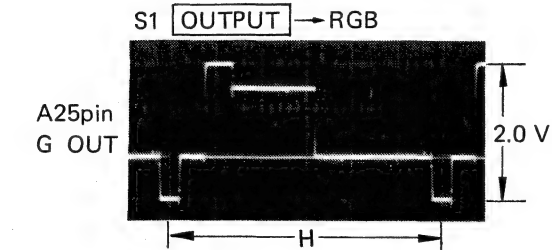
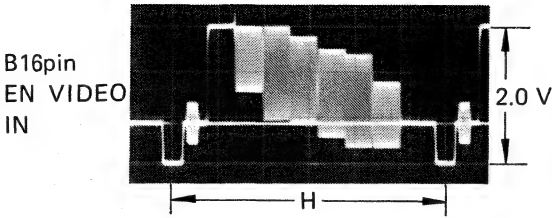
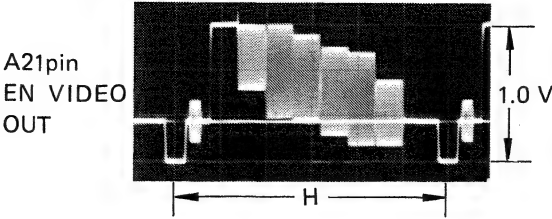
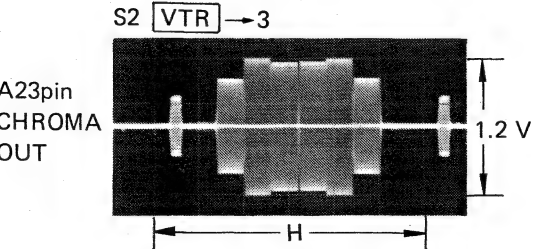
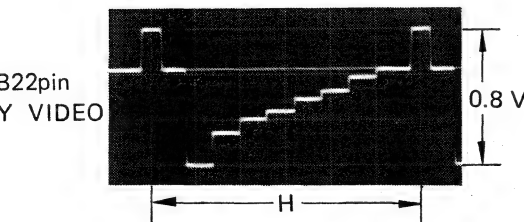
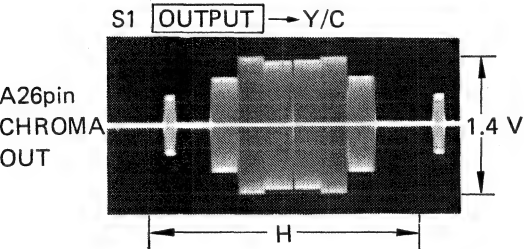
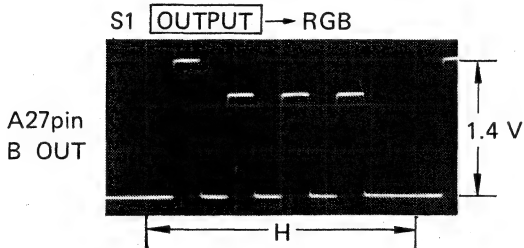
IF-142 回路図

- 注意:
- DC 電圧はデジタル電圧計 (入力インピーダンス 10 MΩ) による値。
 - DC 電圧は下記条件で測定。
 - OUTPUT スイッチ → BARS/DCC OFF 位置
 - S2 **VTR** / IF-142 基板 → 1/CCU 位置
 - S1 **OUTPUT** / IF-142 基板 → AUTO 位置



IF-142

- NOTE:
- All voltage are dc, measured with a digital voltmeter. (input impedance: 10MΩ)
 - DC voltage is measured in condition below.
 - Set camera OUTPUT selector to BARS/DCC OFF position.
 - Set camera S2 **VTR** / IF-142 board to 1/CCU position.
 - Set camera S1 **OUTPUT** / IF-142 board to AUTO position.





PS-141 回路図

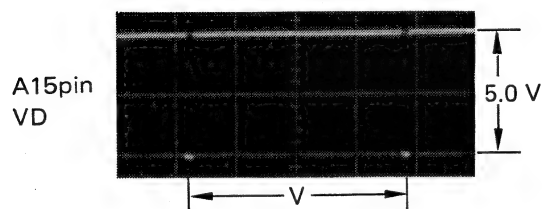
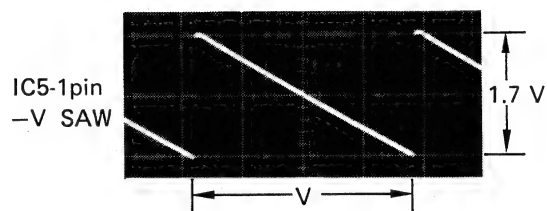
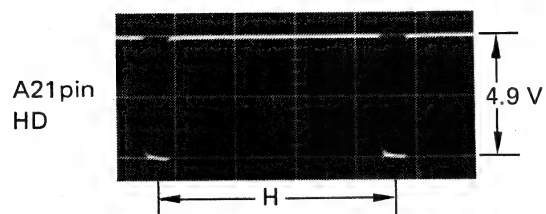
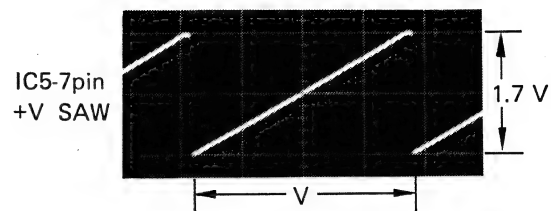
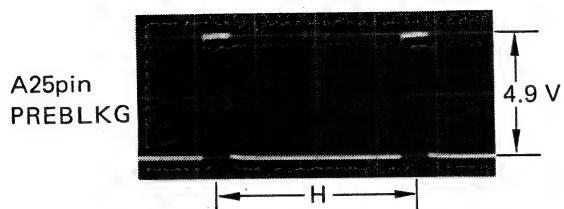
PS-141

注意:

1. DC 電圧はデジタル電圧計 (入力インピーダンス $10\text{ M}\Omega$) による値。

NOTE:

1. All voltage are dc, measured with a digital voltmeter. (input impedance: $10\text{ M}\Omega$)

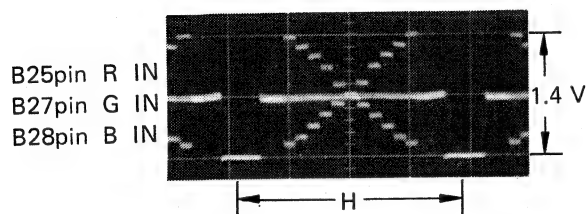
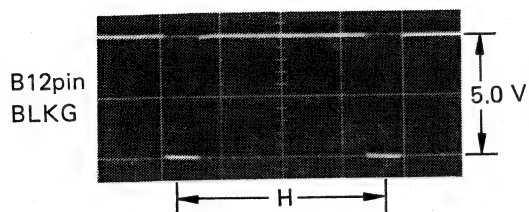




AT-46 回路図

注意:

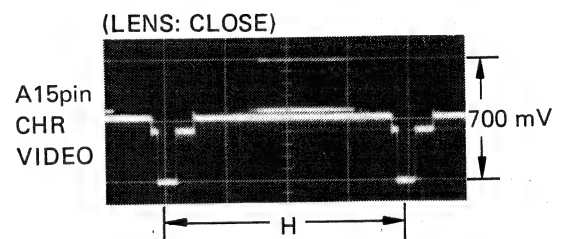
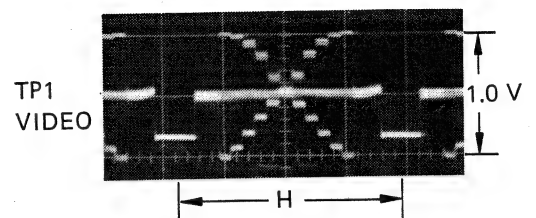
1. DC 電圧はデジタル電圧計 (入力インピーダンス $10\text{ M}\Omega$) による値。
2. 波形写真は下記条件で撮影。
 - ・オートアイリスにて, グレースケールチャートを撮影。

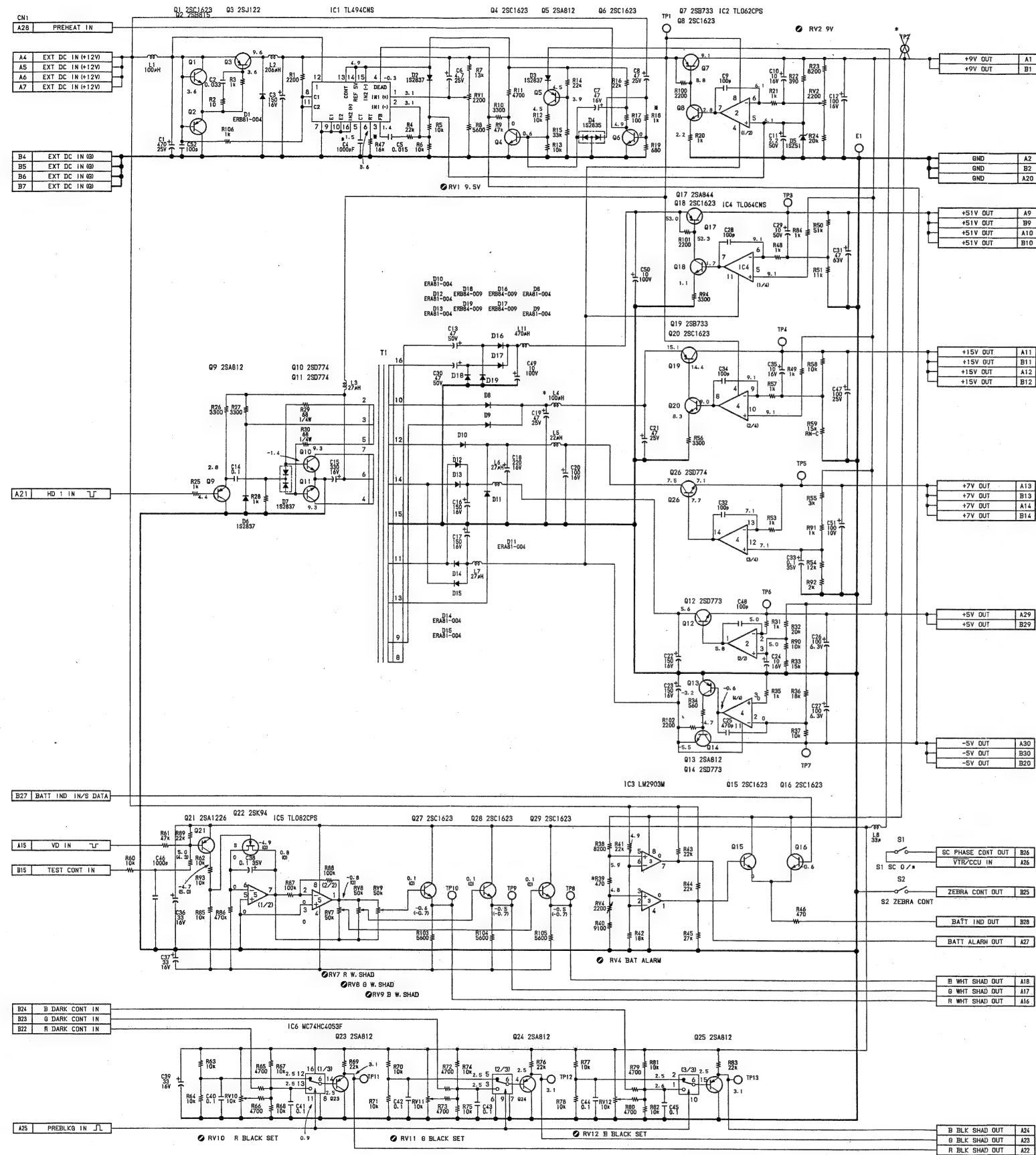


AT-46

NOTE:

1. All voltage are dc, measured with a digital voltmeter. (input impedance: $10\text{ M}\Omega$)
2. All waveforms are taken in condition below.
 - ・ Shoot the grayscale chart in the AUTO IRIS mode.





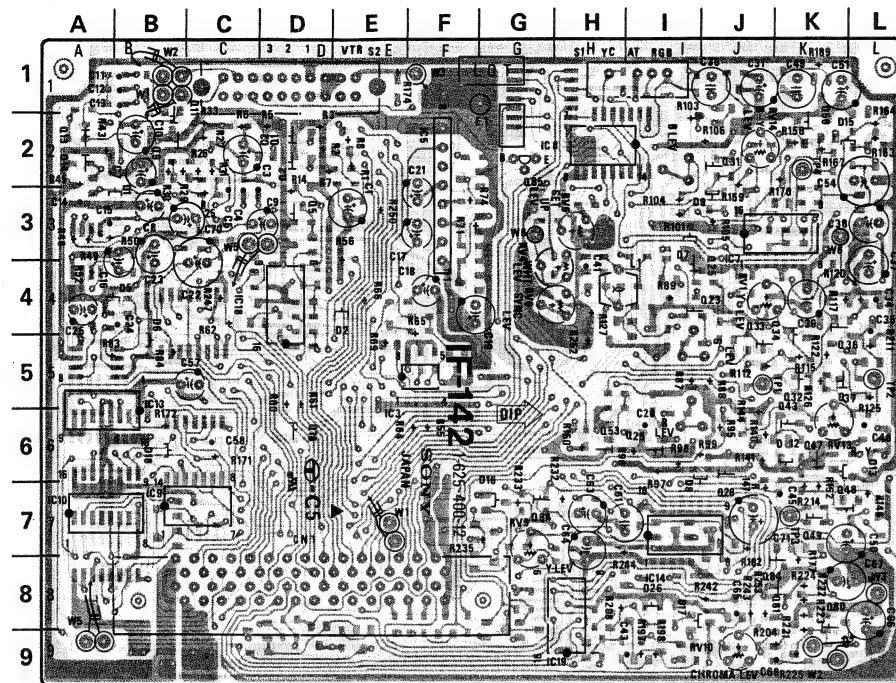
REF. NO.	DESCRIPTION	EFFECTIVE SER. NO.
R18	2200 → 1K	10251 - GUC
R47	12K → 5600	30201 - L8
		40001 - E8
		70001 - BRZ
R39	180 → 470	11351 - GUC
L4	470 → 100	30201 - L8
		40001 - E8
		70001 - BRZ
R47	5600 → 16K	12201 - GUC
C4	0.0022 → 1000PF	31411 - L8
		42791 - E8
		70021 - BRZ
TP2	DELETE	12351 - GUC
		31411 - L8
		43411 - E8
		70041 - BRZ

IF-142 BOARD (INTERFACE)

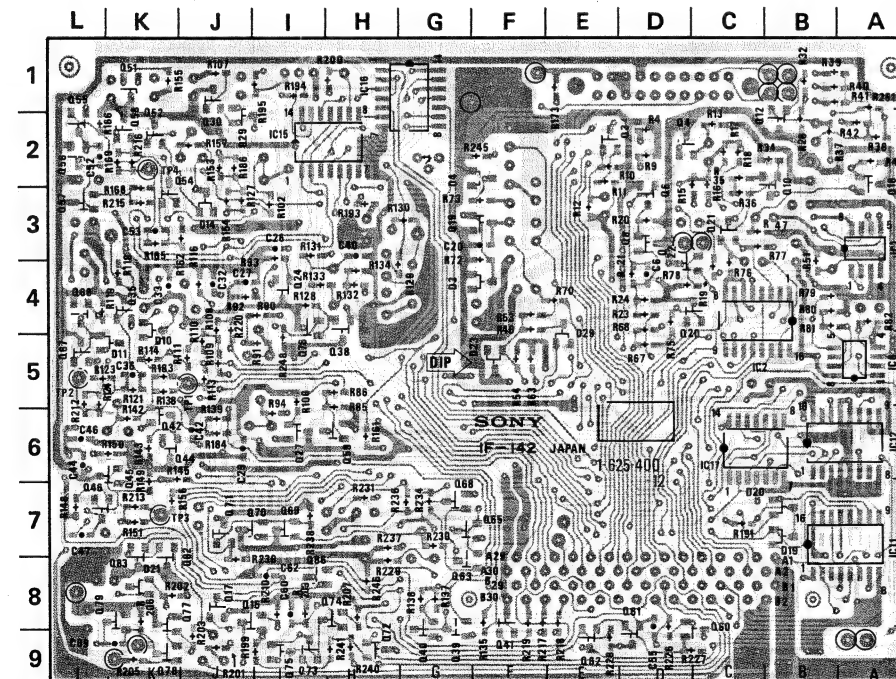
Ser.No.10401-11350 (UC)
30501-31200 (J)

IF-142 (1-625-400-12)

CN1	D-8 C	Q40	G-9 S
D1	B-3 C	Q41	F-8 S
D2	E-4 C	Q42	K-6 S
D3	F-4 S	Q43	K-6 C
D4	F-2 S	Q44	J-6 S
D5	B-4 C	Q45	K-6 S
D6	B-5 C	Q46	L-7 S
D7	I-3 C	Q47	K-6 C
D8	J-6 C	Q48	L-7 C
D9	I-3 C	Q49	K-7 C
D10	K-4 S	Q50	K-2 C
D11	K-5 S	Q51	K-1 S
D12	K-6 C	Q52	K-2 S
D13	K-6 C	Q53	H-6 C
D14	J-3 S	Q54	J-3 S
D15	K-2 C	Q55	L-2 S
D16	G-7 C	Q56	L-2 S
D17	I-8 C	Q57	L-3 S
D18	B-6 C	Q58	K-2 S
D19	B-7 S	Q59	H-6 S
D20	B-7 S	Q60	C-9 S
D21	K-8 S	Q61	D-9 S
D22	F-5 S	Q62	E-9 S
D26	I-8 C	Q63	G-8 S
D29	E-5 S	Q64	G-7 C
		Q65	G-7 S
		Q66	L-4 S
E1	G-1 C	Q67	L-5 S
		Q68	G-7 S
IC1	A-3 S	Q69	I-7 S
IC2	C-4 S	Q70	J-7 S
IC3	F-5 C	Q71	J-7 S
IC5	F-3 C	Q72	H-9 S
IC6	A-5 S	Q73	I-9 S
IC7	K-3 C	Q74	H-8 S
IC8	H-2 C	Q75	I-9 S
IC9	C-7 C	Q76	I-4 S
IC10	A-7 C	Q77	K-8 S
IC11	A-7 S	Q78	K-9 S
IC12	A-6 S	Q79	K-8 S
IC13	A-5 C	Q80	K-9 C
IC14	J-2 C	Q81	K-8 C
IC15	I-2 S	Q82	K-8 S
IC16	G-1 S	Q83	K-8 S
IC17	C-6 S	Q84	K-8 C
IC18	D-4 C	Q85	G-3 C
IC19	H-8 C	Q86	I-8 S
Q1	D-2 C	RV4	H-4 C
Q2	D-2 C	RV5	H-3 C
Q3	E-2 S	RV6	H-4 C
Q4	D-2 S	RV9	G-7 C
Q5	D-3 C	RV10	J-9 C
Q6	D-3 S	RV13	K-6 C
Q8	D-3 S	RV14	J-2 C
Q9	B-2 C		
Q10	B-3 S	S1	I-1 C
Q11	B-2 C	S2	D-1 C
Q12	B-2 S		
Q13	A-2 C	TP1	J-5 C
Q14	A-2 C		J-5 S
Q15	J-8 S	TP2	L-5 C
Q16	A-2 S		L-5 S
Q17	J-8 S	TP3	K-7 C
Q18	D-6 C		K-7 S
Q19	F-3 S	TP4	K-2 C
Q20	D-4 S		
Q21	C-3 S		
Q22	D-4 S		
Q23	I-4 C		
Q24	I-4 S		
Q25	I-4 C		
Q26	I-6 C		
Q27	I-6 S		
Q28	J-6 C		
Q29	J-2 S		
Q30	J-2 S		
Q31	J-2 C		
Q32	K-5 C		
Q33	J-5 C		
Q34	K-5 C		
Q35	K-4 S		
Q36	K-4 C		
Q37	K-5 C		
Q38	H-4 S		
Q39	G-9 S		



IF-142 - COMPONENT SIDE -
1-625-400-12
DXC-M7 (J, UC)



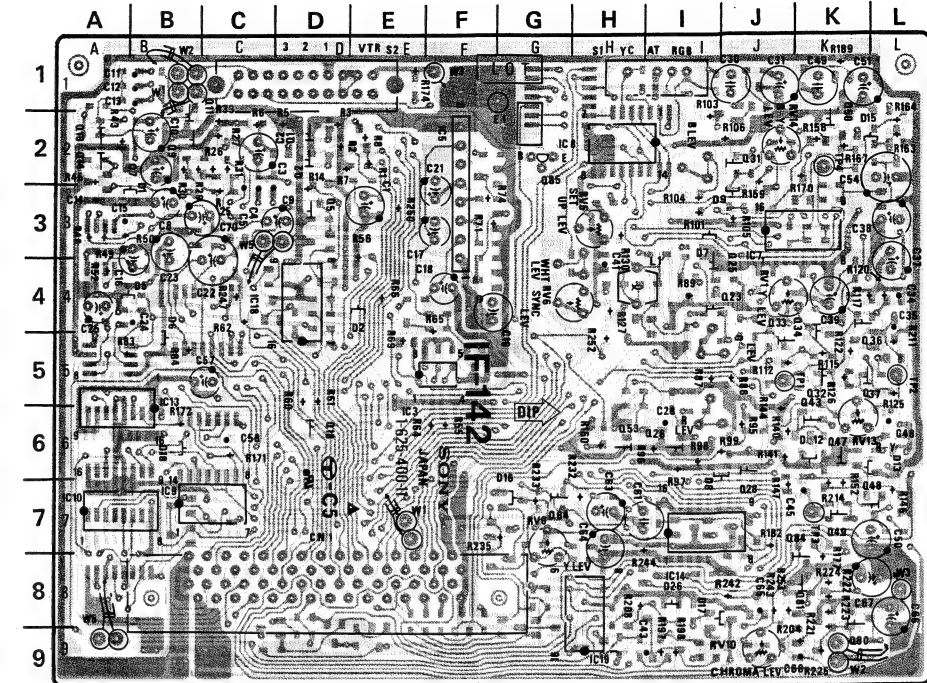
IF-142 - SOLDER SIDE -
1-625-400-12
DXC-M7 (J, UC)

IF-142 (1-625-400-11)

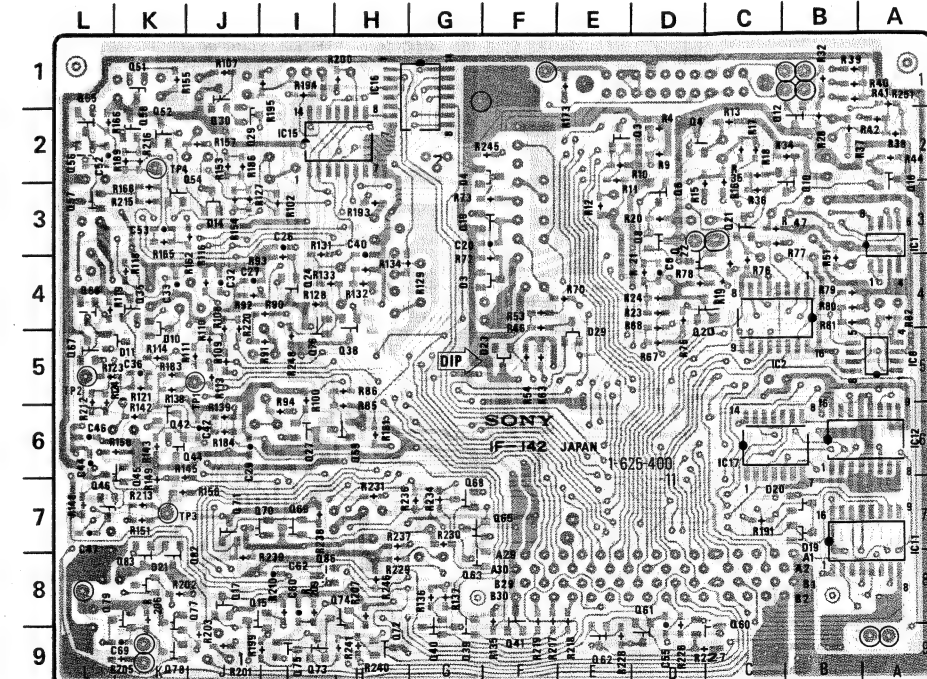
CN1	D-7 C	Q47	K-6 C
D1	B-3 C	Q48	L-7 C
D2	E-4 C	Q49	K-7 C
D3	G-4 S	Q50	K-2 C
D4	G-2 S	Q51	K-1 S
D5	B-4 C	Q52	K-2 S
D7	I-3 C	Q53	H-6 C
D8	B-4 C	Q54	J-2 S
		Q55	L-1 S
D9	I-3 C	Q56	L-2 S
D10	K-5 S	Q57	L-3 S
D11	K-5 S	Q58	K-2 S
D12	C-2 S	Q59	H-6 S
D13	L-6 C	Q60	C-9 S
D15	K-2 C	Q61	D-8 S
D16	G-7 C	Q62	E-9 S
		Q63	G-8 S
		Q64	G-7 C
D17	I-8 C	Q65	F-7 S
D18	B-6 C	Q66	L-4 S
D19	B-7 S	Q67	L-5 S
D20	C-7 S	Q68	G-7 S
D21	K-8 S	Q69	I-7 S
D23	F-5 S	Q70	I-7 S
D26	I-8 C	Q71	J-7 S
D29	E-5 S	Q72	H-9 S
		Q73	I-9 S
E1	G-2 C	Q74	H-8 S
		Q75	I-9 S
IC1	A-3 S	Q76	I-5 S
IC2	C-5 S	Q77	K-8 S
IC3	E-6 C	Q78	K-9 S
IC5	F-2 C	Q79	K-8 S
IC6	A-5 S	Q80	K-9 C
IC9	B-7 C	Q81	K-8 C
IC10	A-7 C	Q82	K-8 S
IC11	A-7 S	Q83	K-8 S
IC12	A-6 S	Q84	K-7 C
IC13	B-5 C	Q85	G-3 C
IC15	I-2 S	Q86	I-8 S
IC17	C-6 S		
IC18	C-4 C	RV5	H-3 C
IC19	H-9 C	RV9	G-7 C
		RV10	J-9 C
		RV13	K-6 C
Q1	D-2 C	S1	H-1 C
Q2	D-2 C	S2	E-1 C
Q3	D-2 S		
Q4	D-2 S		
Q5	D-3 C	TP1	J-5 C
Q6	D-3 S		J-5 S
Q8	D-3 S	TP2	L-5 C
Q9	B-2 C		L-5 S
Q10	B-3 S	TP3	K-7 C
Q11	C-1 C		K-7 S
Q13	A-2 C	TP4	K-2 S
Q14	A-2 C		
Q15	J-8 S		
Q17	J-8 S		
Q18	D-6 C		
Q19	G-3 S		
Q20	D-5 S		
Q21	C-3 S		
Q22	D-3 S		
Q23	J-4 C		
Q24	I-4 S		
Q25	J-4 C		
Q26	I-6 C		
Q27	I-6 S		
Q28	J-7 C		
Q29	J-2 S		
Q30	J-2 S		
Q31	J-2 C		
Q32	K-5 C		
Q33	J-4 C		
Q34	K-4 C		
Q35	K-4 S		
Q36	L-5 C		
Q38	H-5 S		
Q39	G-9 S		
Q40	G-9 S		
Q41	F-9 S		
Q42	K-6 S		
Q43	K-6 C		
Q44	J-6 S		
Q45	K-6 S		
Q46	L-7 S		

*-C: COMPONENT SIDE
*-S: SOLDERING SIDE

Ser.No.10001-10400 (UC)
30001-30350 (J)



IF-142 - COMPONENT SIDE -
1-625-400-11
DXC-M7 (J, UC)



IF-142 - SOLDER SIDE -
1-625-400-11
DXC-M7 (J, UC)

*-C: COMPONENT SIDE
*-S: SOLDERING SIDE

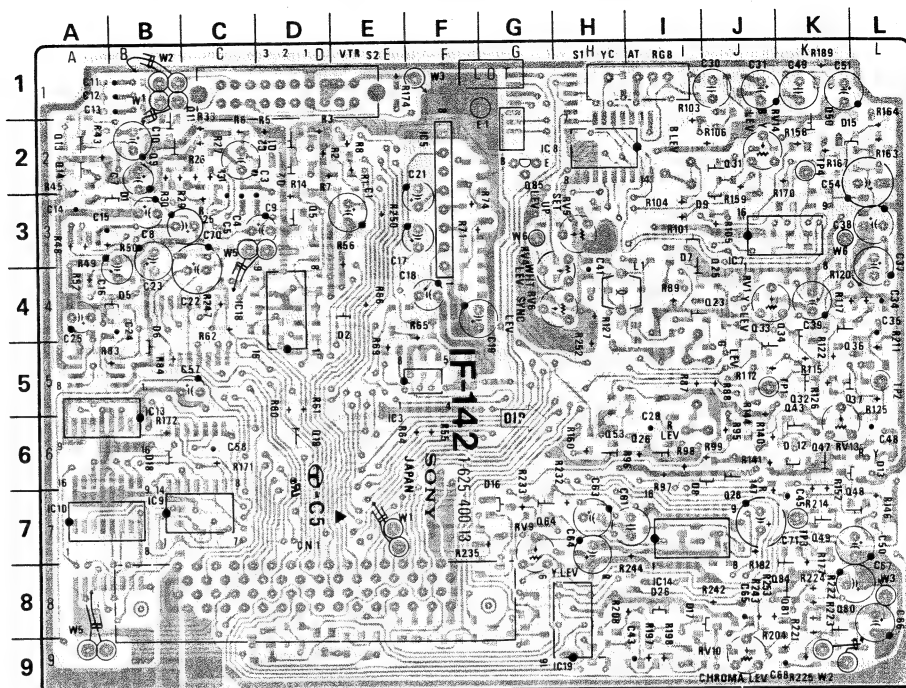
IF-142 BOARD (INTERFACE)

Ser.No. 11351-12810 (UC)
31201-31410 (J)
40001-44010 (EK)
70001-70050 (BRZ)

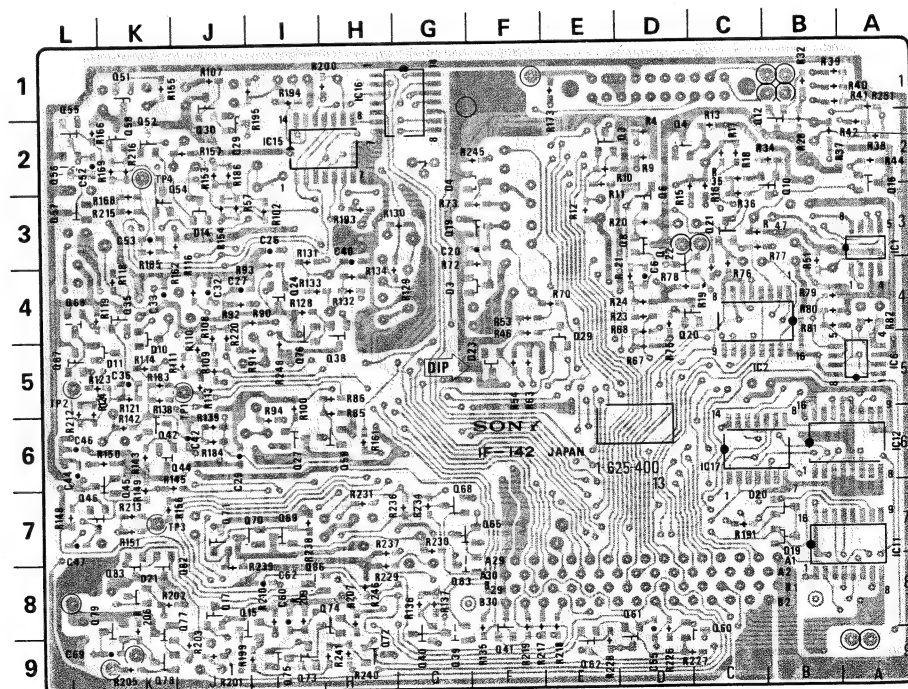
IF-142 (1-625-400-13)

CN1	D-8 C	Q40	G-9 S
D1	B-3 C	Q41	F-8 S
D2	E-4 C	Q42	K-6 S
D3	F-4 S	Q43	K-6 C
D4	F-2 S	Q44	K-6 S
D5	B-4 C	Q45	L-7 S
D6	B-5 C	Q46	K-6 C
D7	I-3 C	Q47	L-7 C
D8	J-6 C	Q48	K-7 C
D9	J-3 C	Q49	K-2 C
D10	K-4 S	Q50	K-1 S
D11	K-5 S	Q51	K-2 S
D12	K-6 C	Q52	H-6 C
D13	K-6 C	Q53	K-3 S
D14	J-3 S	Q54	L-2 S
D15	K-2 C	Q55	L-3 S
D16	G-7 C	Q56	L-2 S
D17	J-8 C	Q57	L-3 S
D18	B-6 C	Q58	H-6 S
D19	B-7 S	Q59	C-9 S
D20	B-7 S	Q60	D-9 S
D21	K-8 S	Q61	E-9 S
D23	F-5 S	Q62	G-8 S
D26	I-8 C	Q63	G-7 C
D29	E-5 S	Q64	G-7 C
		Q65	L-4 S
		Q66	L-5 S
E1	G-1 C	Q67	G-7 S
		Q68	I-7 S
IC1	A-3 S	Q69	I-7 S
IC2	C-4 S	Q70	J-7 S
IC3	F-5 C	Q71	H-9 S
IC5	F-3 C	Q72	I-9 S
IC6	A-5 S	Q73	I-9 S
IC7	K-3 C	Q74	K-8 S
IC8	H-2 C	Q75	K-9 S
IC9	C-7 C	Q76	K-8 S
IC10	A-7 C	Q77	K-8 S
IC11	A-7 S	Q78	K-8 S
IC12	A-6 S	Q79	K-8 C
IC13	A-5 C	Q80	K-8 C
IC14	I-7 C	Q81	K-8 C
IC15	I-2 S	Q82	K-8 C
IC16	G-1 S	Q83	K-8 C
IC17	C-6 S	Q84	K-8 C
IC18	D-4 C	Q85	G-2 C
IC19	H-8 C	Q86	I-8 S
Q1	D-2 C	RV1	J-4 C
Q2	D-2 C	RV4	H-4 C
Q3	E-2 S	RV5	H-3 C
Q4	D-2 S	RV6	H-4 C
Q5	D-3 C	RV9	G-7 C
Q6	D-3 S	RV10	J-9 C
Q8	D-3 S	RV13	K-6 C
Q9	B-2 C	RV14	J-2 C
Q10	B-3 S		
Q11	B-2 C	S1	I-1 C
Q12	B-2 S	S2	D-1 C
Q13	A-2 C		
Q14	A-2 C	TP1	J-5 C
Q15	J-8 S		J-5 S
Q16	A-2 S	TP2	L-5 C
Q17	J-8 S		L-5 S
Q18	D-6 C	TP3	K-7 C
Q19	F-3 S		K-7 S
Q20	D-4 S	TP4	K-2 C
Q21	C-3 S		K-2 S
Q22	D-4 S		
Q23	I-4 C		
Q24	I-4 S		
Q25	I-4 C		
Q26	I-6 C		
Q27	I-6 S		
Q28	J-6 C		
Q29	J-2 S		
Q30	J-1 S		
Q31	J-2 C		
Q32	K-5 C		
Q33	J-5 C		
Q34	J-5 C		
Q35	K-4 S		
Q36	K-4 C		
Q37	K-5 C		
Q38	H-4 S		
Q39	G-9 S		

*-C; COMPONENT SIDE
*-S; SOLDERING SIDE



IF-142 – COMPONENT SIDE –
1-625-400-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



IF-142 – SOLDER SIDE –
1-625-400-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

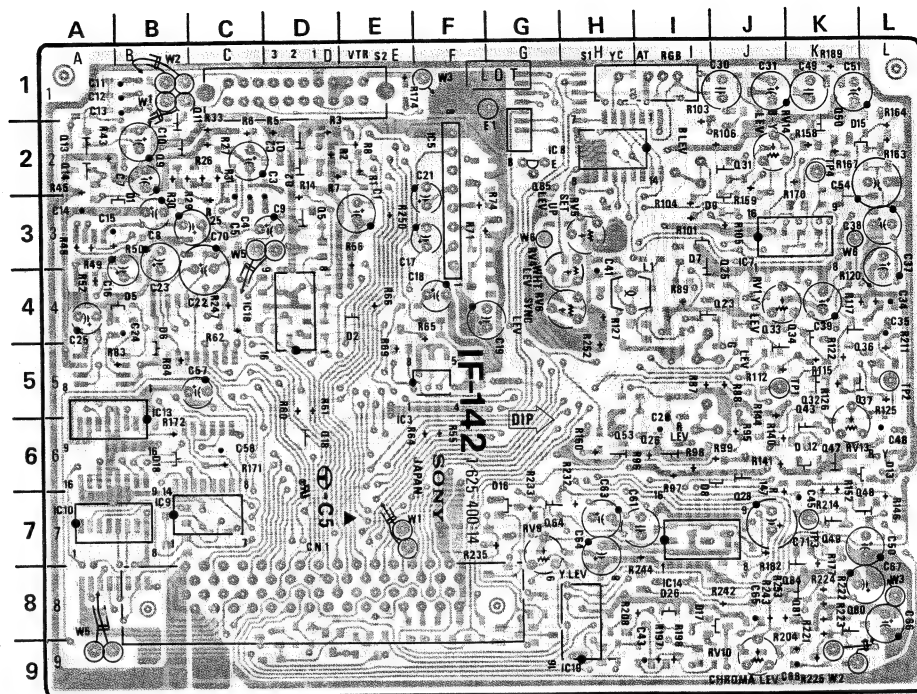
IF-142 BOARD (INTERFACE)

Ser.No.12811- (UC)
31411- (J)
44011- (EK)

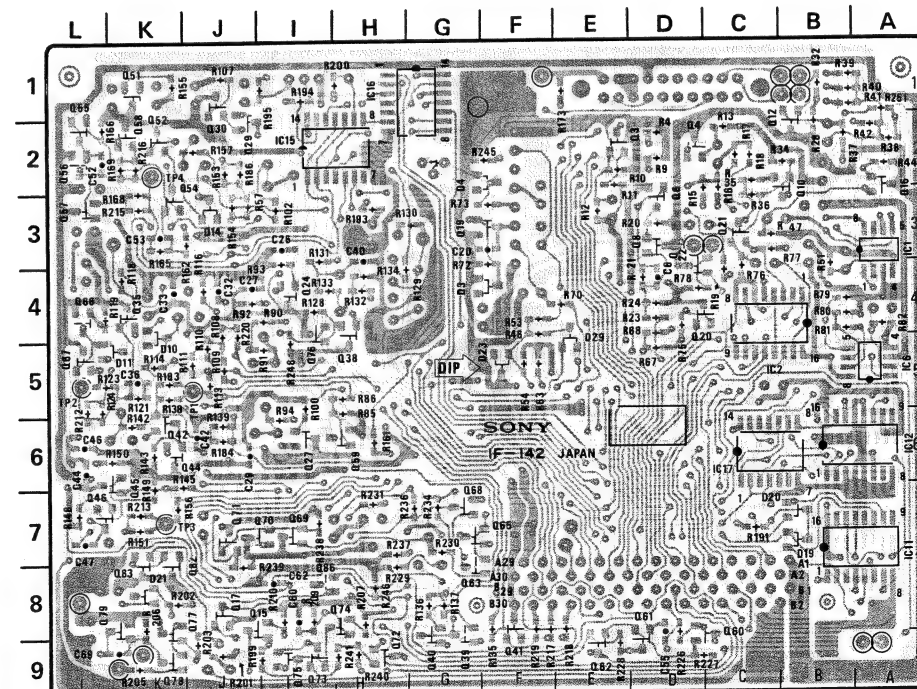
IF-142 (1-625-400-14)

CN1	D-7 C	Q33	J-4 C
D1	B-3 C	Q34	K-4 C
D2	E-4 C	Q35	K-4 S
D3	G-4 S	Q36	K-5 C
D4	G-2 S	Q37	K-5 C
D5	B-4 C	Q38	H-5 S
D6	B-4 C	Q39	G-9 S
D7	I-3 C	Q40	G-9 S
D8	I-7 C	Q41	F-9 S
D9	J-3 C	Q42	K-6 S
D10	K-5 S	Q43	K-6 C
D11	K-5 S	Q44	K-6 S
D12	K-6 C	Q45	K-6 S
D13	L-6 C	Q46	L-7 S
D14	J-3 S	Q47	K-6 C
D15	K-2 C	Q48	L-7 C
D16	G-7 C	Q49	K-7 C
D17	I-8 C	Q50	K-2 C
D18	B-6 C	Q51	K-1 S
D19	B-7 S	Q52	K-2 S
D20	C-7 S	Q53	H-6 C
D21	K-8 S	Q54	J-2 S
D23	F-5 S	Q55	L-1 S
D26	I-8 C	Q56	L-2 S
D29	E-5 S	Q57	L-3 S
E1	G-2 C	Q58	K-2 S
IC1	A-3 S	Q59	H-6 S
IC2	C-5 S	Q60	C-8 S
IC3	E-6 C	Q61	D-8 S
IC5	F-2 C	Q62	E-9 S
IC6	A-5 S	Q63	G-8 S
IC7	J-3 C	Q64	G-7 C
IC8	H-2 C	Q65	F-7 S
IC9	B-7 C	Q66	L-4 S
IC10	A-7 C	Q67	L-5 S
IC11	A-7 S	Q68	G-7 S
IC12	A-6 S	Q69	I-7 S
IC13	B-5 C	Q70	I-7 S
IC14	I-8 C	Q71	J-7 S
IC15	I-2 S	Q72	H-9 S
IC16	H-1 S	Q73	I-9 S
IC17	C-6 S	Q74	H-8 S
IC18	C-4 C	Q75	I-9 S
IC19	H-9 C	Q76	I-5 S
		Q77	J-8 S
		Q78	K-9 S
		Q79	L-8 S
		Q80	K-9 C
Q1	D-2 C	Q81	K-8 C
Q2	D-2 C	Q82	J-8 S
Q3	D-2 S	Q83	K-8 S
Q4	D-2 S	Q84	J-7 C
Q5	D-3 C	Q85	G-2 C
Q6	D-3 S	Q86	I-8 S
Q8	D-3 S		
Q9	B-2 C	RV1	J-4 C
Q10	B-3 S	RV4	G-3 C
Q11	C-2 C	RV5	H-3 C
Q12	B-2 S	RV6	G-4 C
Q13	A-2 C	RV9	G-7 C
Q14	A-2 C	RV10	J-9 C
Q15	J-8 S	RV13	K-6 C
Q16	A-2 S	RV14	J-2 C
Q17	J-8 S		
Q18	D-5 C	S1	H-1 C
Q19	G-3 S	S2	E-1 C
Q20	C-4 S		
Q21	C-3 S	TP1	J-5 C
Q22	D-3 S		J-5 S
Q23	J-4 C	TP2	L-5 C
Q24	I-4 S		L-5 S
Q25	J-4 C	TP3	K-7 C
Q26	I-6 C		K-7 S
Q27	I-6 S	TP4	K-2 C
Q28	J-7 C		K-2 S
Q29	J-2 S		
Q30	J-2 S		
Q31	J-2 C		
Q32	K-5 C		

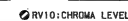
*-C: COMPONENT SIDE
*-S: SOLDER SIDE



IF-142 - COMPONENT SIDE -
1-625-400-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

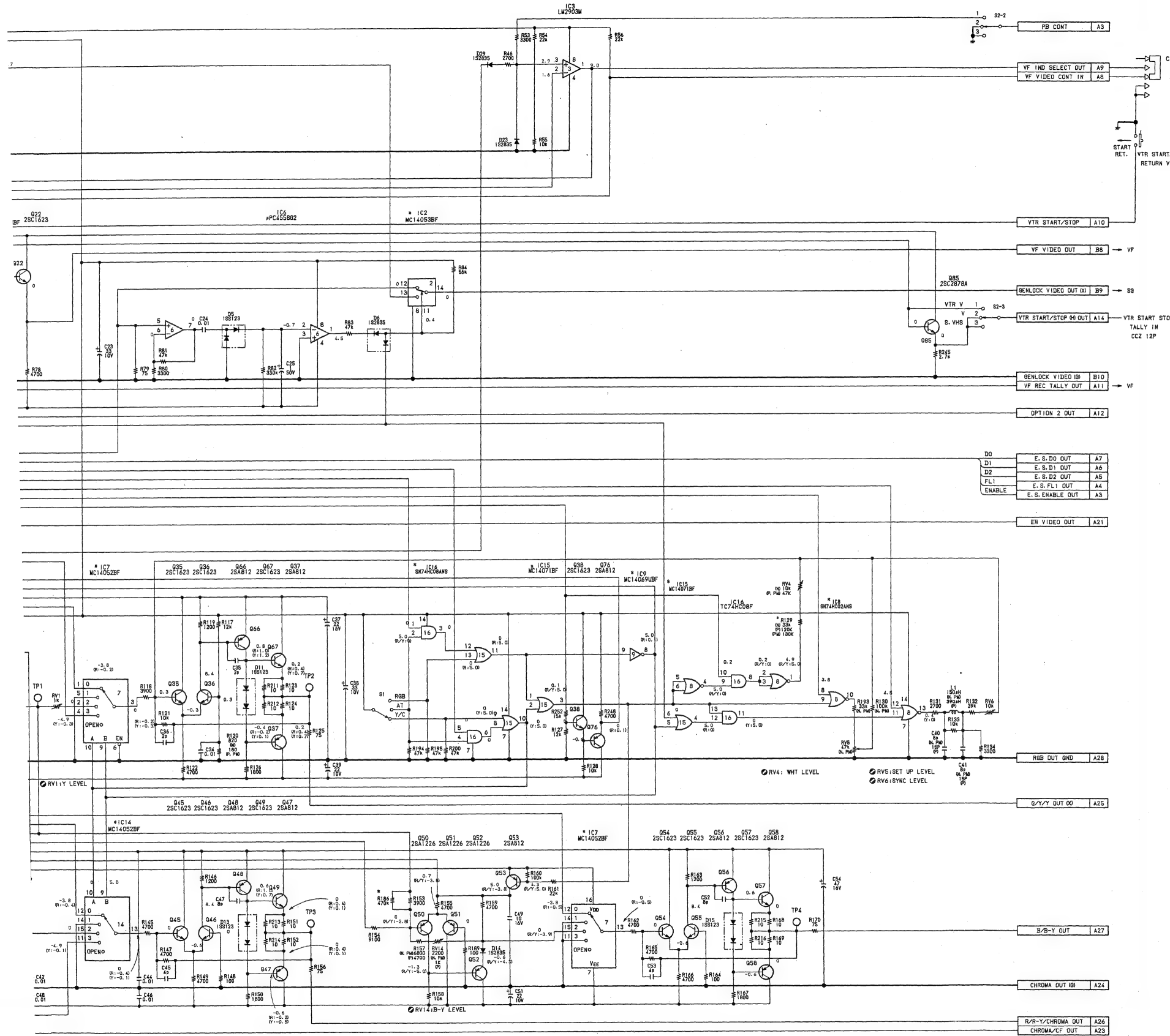


IF-142 - SOLDER SIDE -
1-625-400-14
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)



6-47

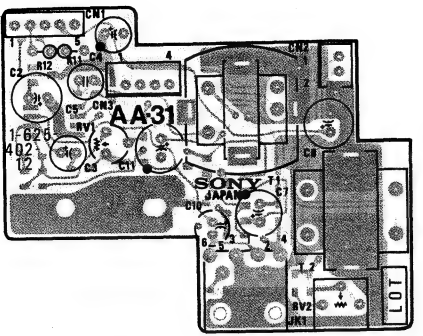
6-48



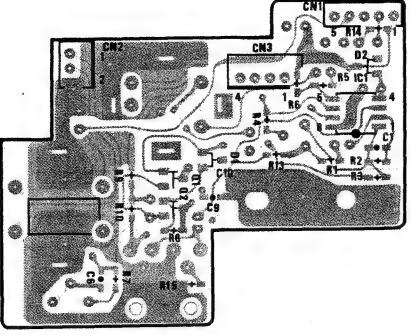
REF. NO.	DESCRIPTION	EFF. SER. NO.
R23	220 → 100	10081 - (UC)
R76	4700 → 10K	30071 - (U)
R138	OPEN → 82K	
R139	8.2K → 6.8K	
R184	47K → OPEN	
R186	OPEN → 470K	
R203	5.1K → 4.7K	
R129	150K → 130K	70021 - (BRZ)
IC8	TC74HC02F →	12631 - (UC)
IC16, 17	TC74HC02NS →	31411 - (U)
	SN74HC08NS →	43911 - (EX)
		70051 - (BRZ)
IC11, 13	HD14042BFP →	MC14042BF
IC10, 12	TC4029BF →	13181 - (UC)
IC2, 14	MC14029BF →	31421 - (U)
IC2, 14	TC4052BFPB →	44061 - (EX)
IC2, 18	MC14052BF →	70051 - (BRZ)
IC9	TC4069BFP →	MC14069BFP
IC15	TC4071BF →	MC14071BF

AA-31 BOARD
MA-32 BOARD

Ser.No. 10401-	(UC)
30351-	(J)
40001-	(EK)
70001-	(BRZ)

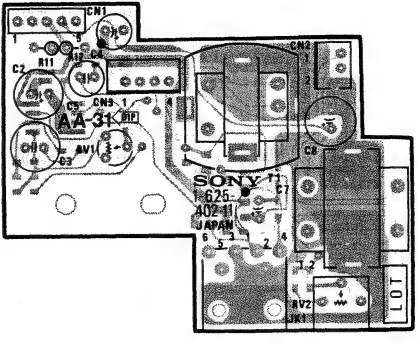


AA-31 — COMPONENT SIDE —
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

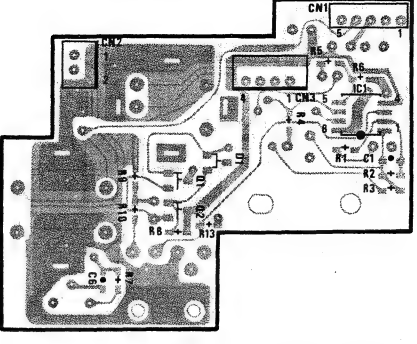


AA-31 — SOLDER SIDE —
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

Ser.No. 10001-10400	(UC)
30001-30350	(J)



AA-31 — COMPONENT SIDE —
1-625-402-11
DXC-M7 (J, UC)



AA-31 — SOLDER SIDE —
1-625-402-11
DXC-M7 (J, UC)

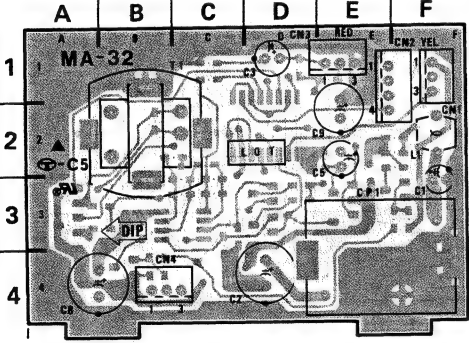
Ser.No. 11961-	(UC)
31311-	(J)
41291-	(EK)
70011-	(BRZ)

Ser.No. 10401-11960	(UC)
30351-31310	(J)
40001-41290	(EK)
70001-70010	(BRZ)

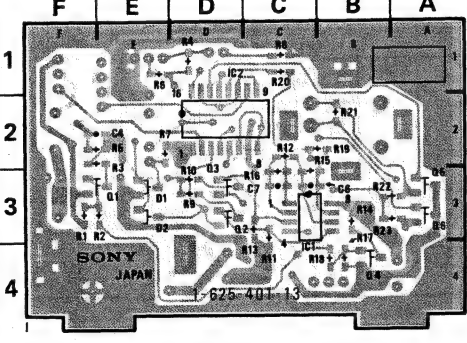
MA-32 (1-625-401-13)

CN1	F-1 C
CN2	F-1 C
CN3	E-1 C
CN4	B-4 C
CP1	E-3 C
D1	E-3 S
D2	E-3 S
IC1	C-3 S
IC2	D-2 S
Q1	E-3 S
Q2	B-3 S
Q3	D-3 S
Q4	B-4 S
Q5	A-3 S
Q6	A-3 S
T1	B-2 C
	C-2 S

*-C; COMPONENT SIDE
*-S; SOLDER SIDE



MA-32 — COMPONENT SIDE —
1-625-401-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

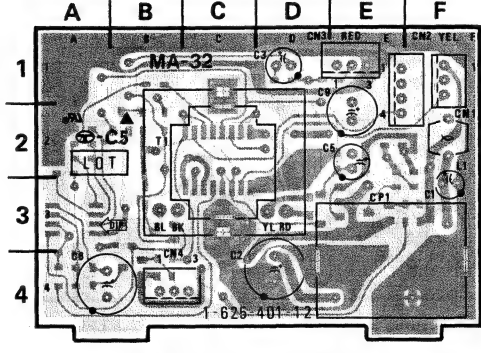


MA-32 — SOLDER SIDE —
1-625-401-13
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

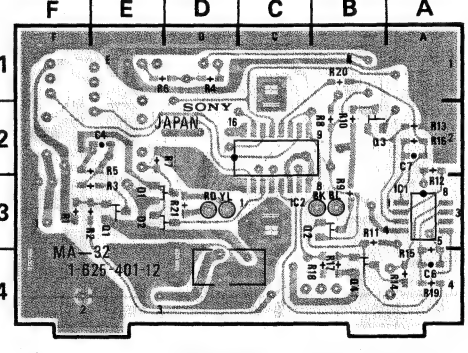
MA-32 (1-625-401-12)

CN1	F-1 C
CN2	F-1 C
CN3	E-1 C
CN4	B-4 C
CP1	E-3 C
D1	E-3 S
D2	E-3 S
IC1	A-3 S
IC2	C-2 S
Q1	E-3 S
Q2	B-3 S
Q3	B-2 S
Q4	B-4 S
T1	C-2 C
	C-2 S

*-C; COMPONENT SIDE
*-S; SOLDER SIDE

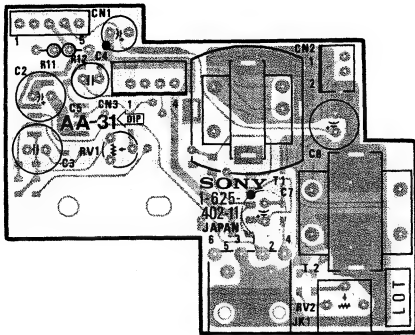


MA-32 — COMPONENT SIDE —
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

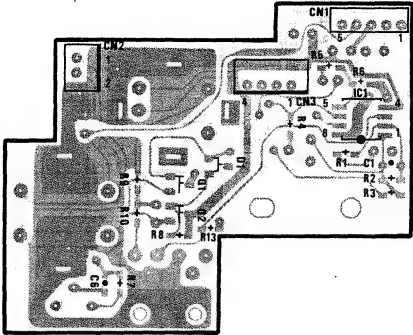


MA-32 — SOLDER SIDE —
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

Ser.No.10001-10400 (UC)
30001-30350 (J)



AA-31 – COMPONENT SIDE –
1-625-402-11
DXC-M7 (J, UC)



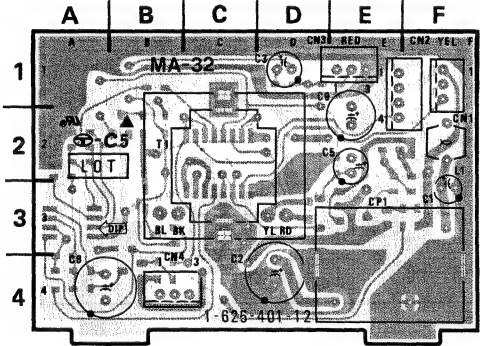
AA-31 – SOLDER SIDE –
1-625-402-11
DXC-M7 (J, UC)

Ser.No.10401-11960 (UC)
30351-31310 (J)
40001-41290 (EK)
70001-70010 (BRZ)

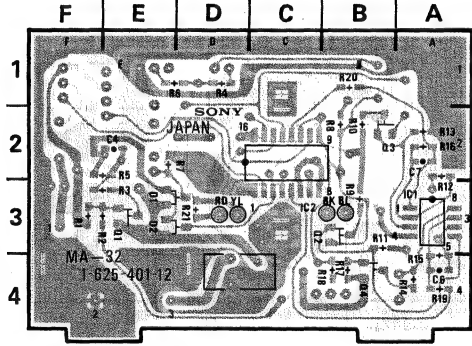
MA-32 (1-625-401-12)

- CN1 F-1 C
- CN2 F-1 C
- CN3 E-1 C
- CN4 B-4 C
- CP1 E-3 C
- D1 E-3 S
- D2 E-3 S
- IC1 A-3 S
- IC2 C-2 S
- Q1 E-3 S
- Q2 B-3 S
- Q3 B-2 S
- Q4 B-4 S
- T1 C-2 C
- C-2 S

**-C; COMPONENT SIDE
**-S; SOLDER SIDE



MA-32 – COMPONENT SIDE –
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

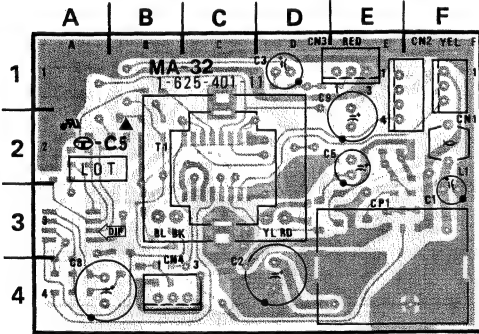


MA-32 – SOLDER SIDE –
1-625-402-12
DXC-M7 (J, UC)
DXC-M7P (EK)
DXC-M7PM (BRZ)

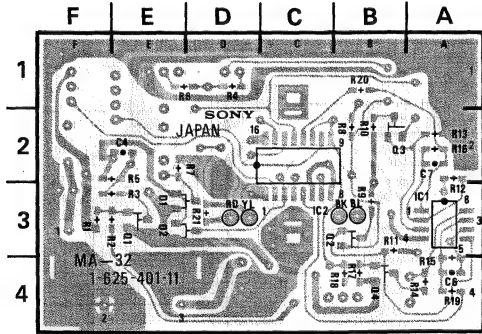
MA-32 (1-625-401-11)

- CN1 F-1 C
- CN2 F-1 C
- CN3 E-1 C
- CN4 B-4 C
- CP1 E-3 C
- D1 E-3 S
- D2 E-3 S
- IC1 A-3 S
- IC2 C-2 S
- Q1 E-3 S
- Q2 B-3 S
- Q3 B-2 S
- Q4 B-4 S
- T1 C-2 S

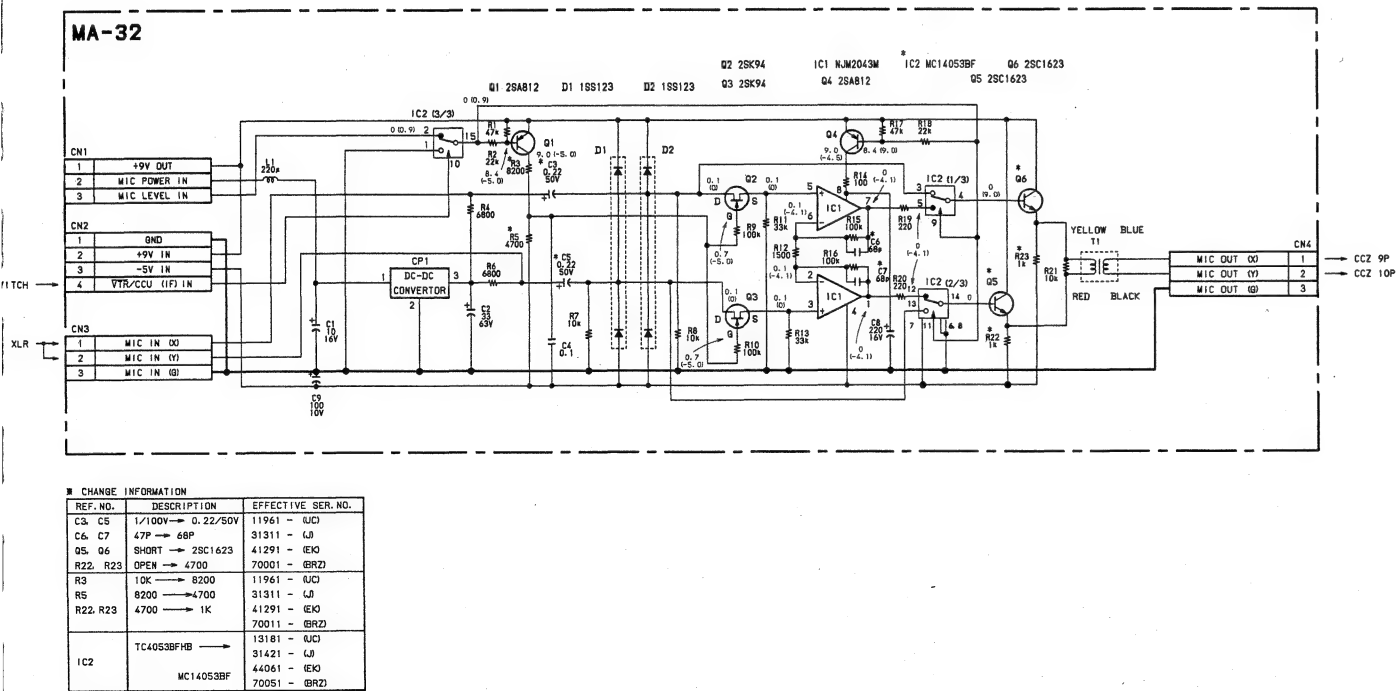
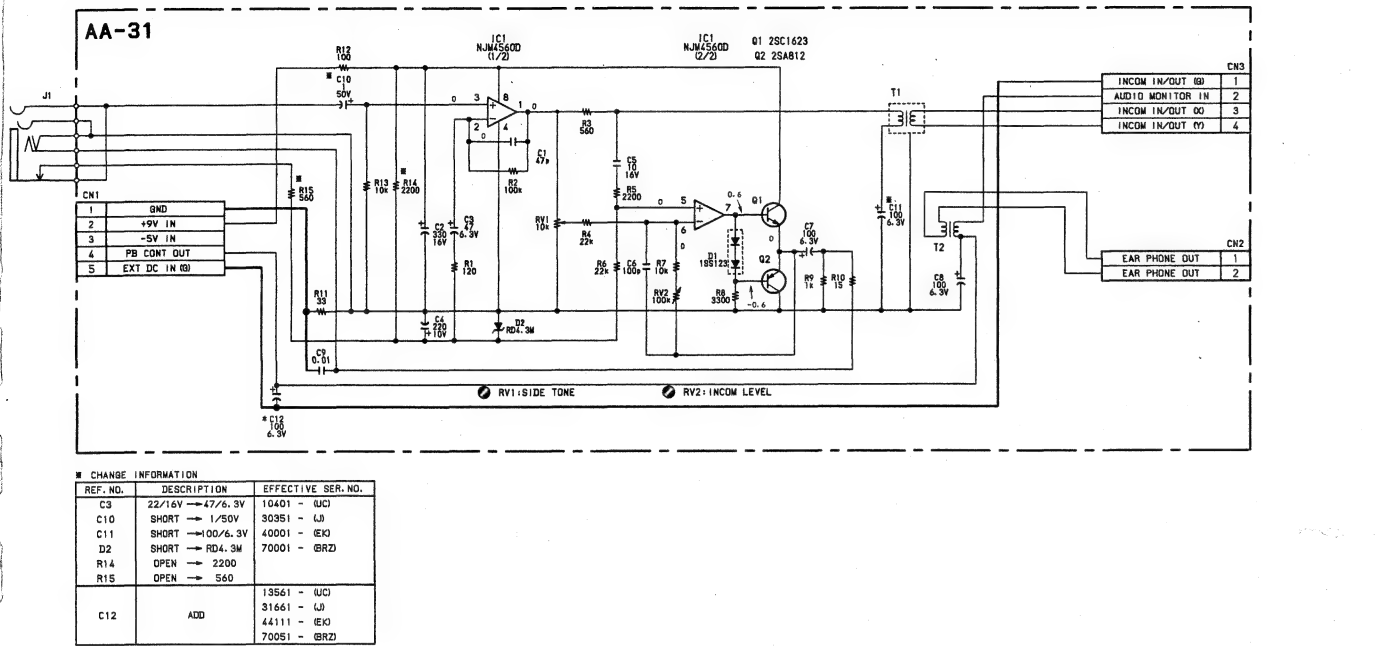
**-C; COMPONENT SIDE
**-S; SOLDER SIDE



MA-32 – COMPONENT SIDE –
1-625-401-11
DXC-M7 (J, UC)

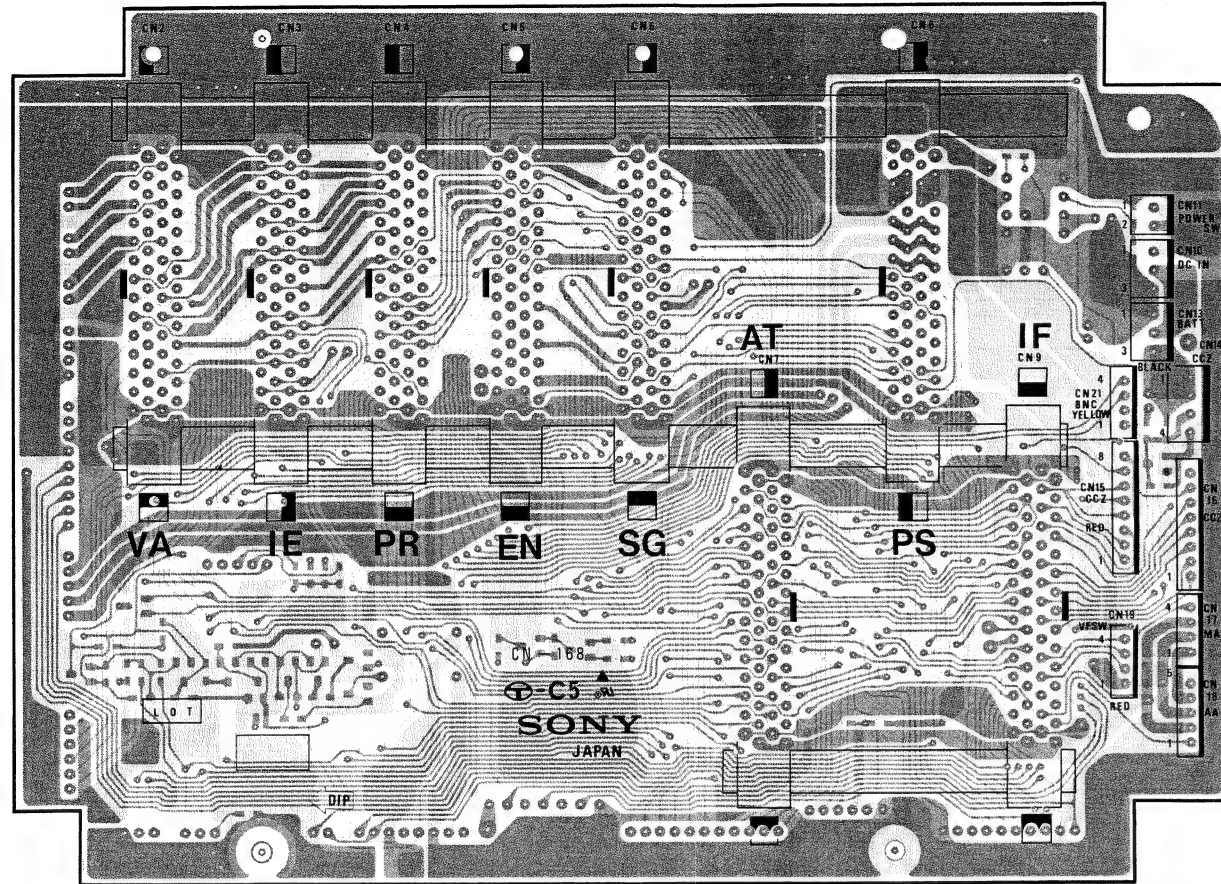


MA-32 – SOLDER SIDE –
1-625-401-11
DXC-M7 (J, UC)

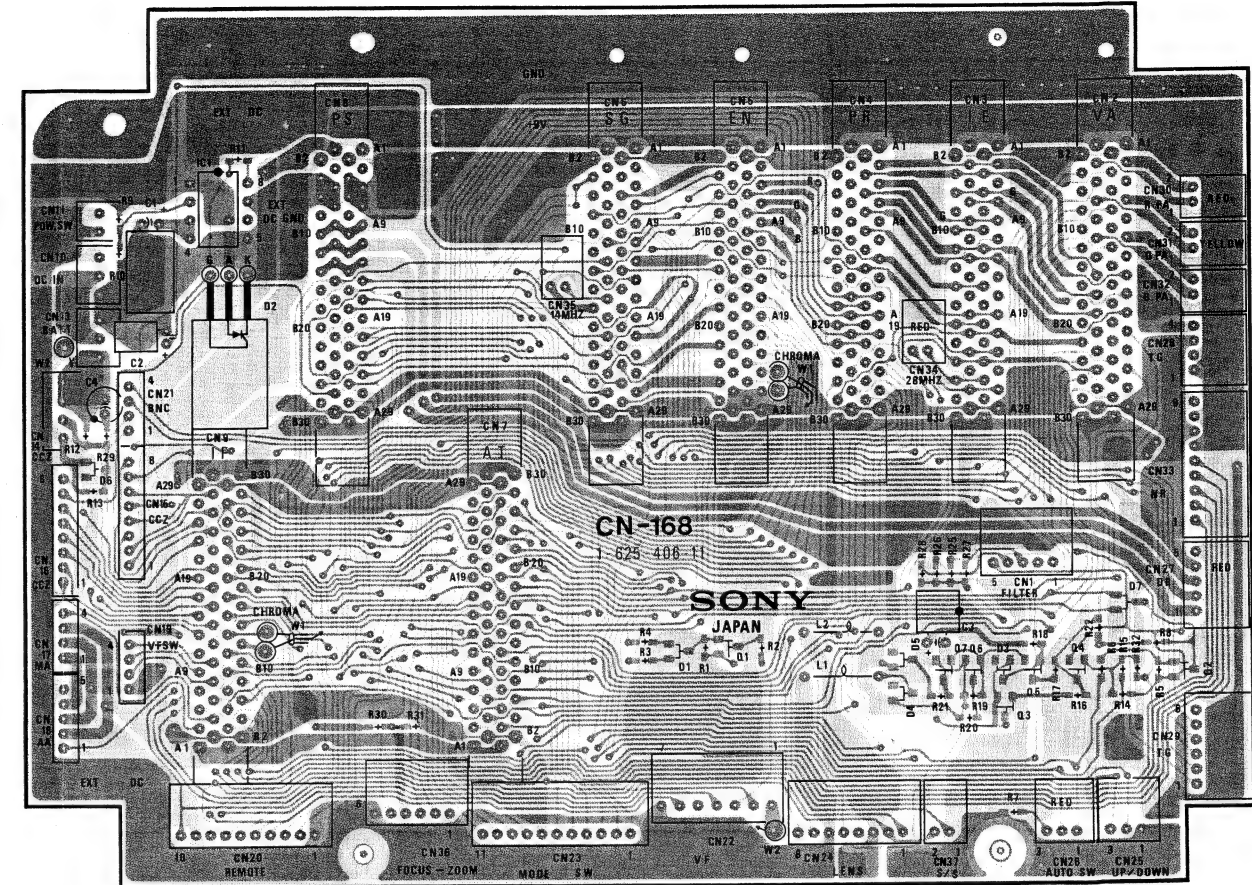


CN-168 BOARD
SW-166 BOARD
SW-167 BOARD
SW-168 BOARD
SW-169 BOARD

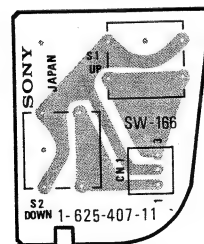
Ser.No. 10001-10400 (UC)
30001-30350 (J)



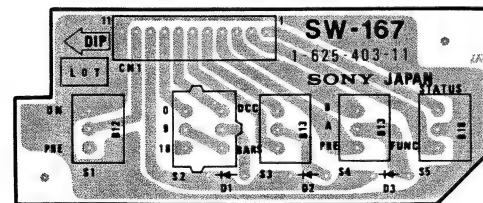
CN-168 — COMPONENT SIDE —
1-625-406-11
DXC-M7 (J, UC)



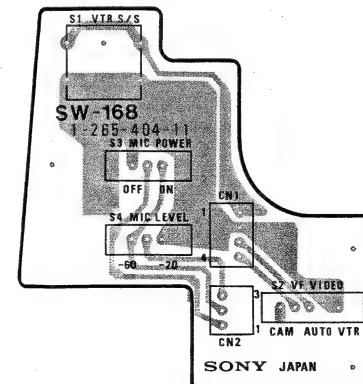
CN-168 — SOLDER SIDE —
1-625-406-11
DXC-M7 (J, UC)



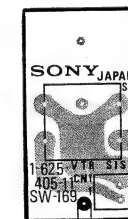
SW-166 — COMPONENT SIDE —
1-625-407-11
DXC-M7 (J, UC)



SW-167 — COMPONENT SIDE —
1-625-403-11
DXC-M7 (J, UC)



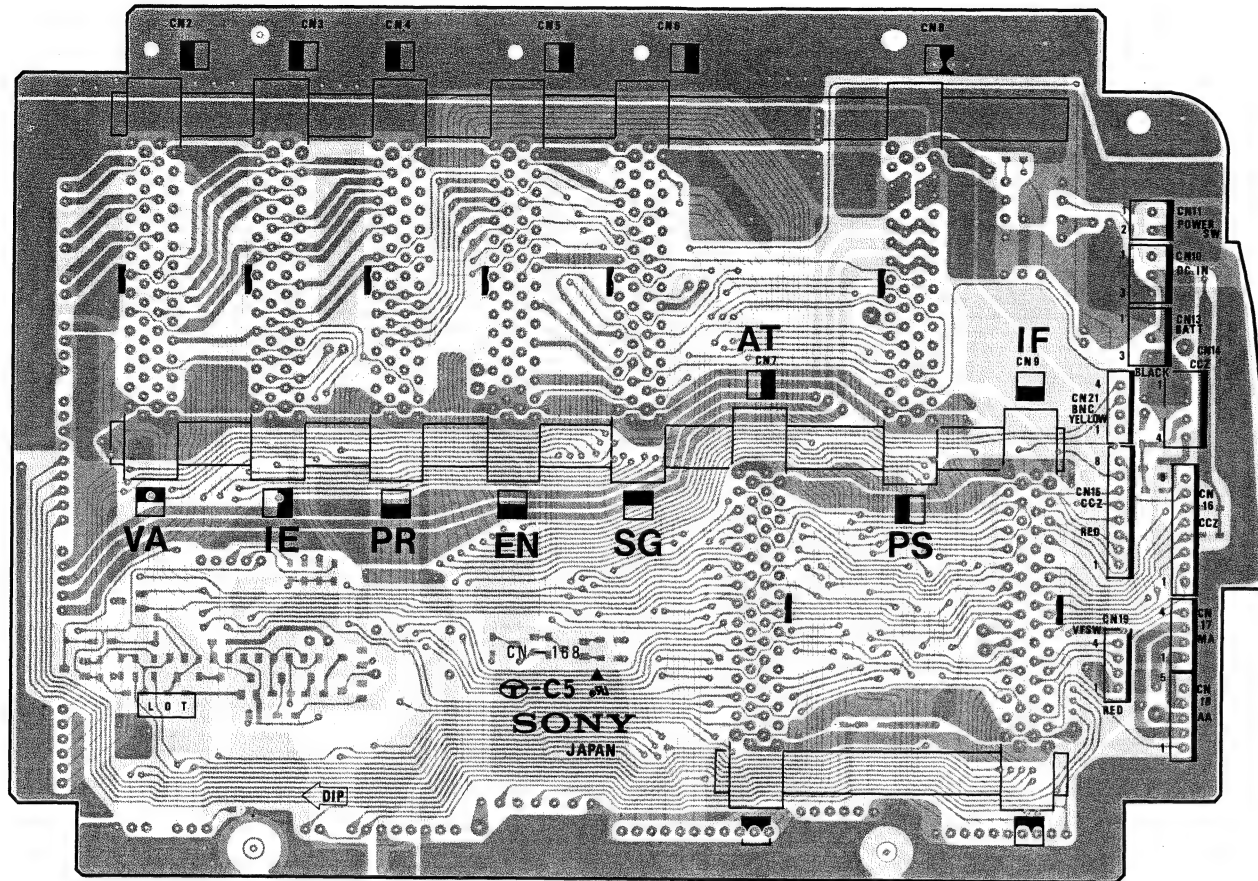
SW-168 — COMPONENT SIDE —
1-625-404-11
DXC-M7 (J, UC)



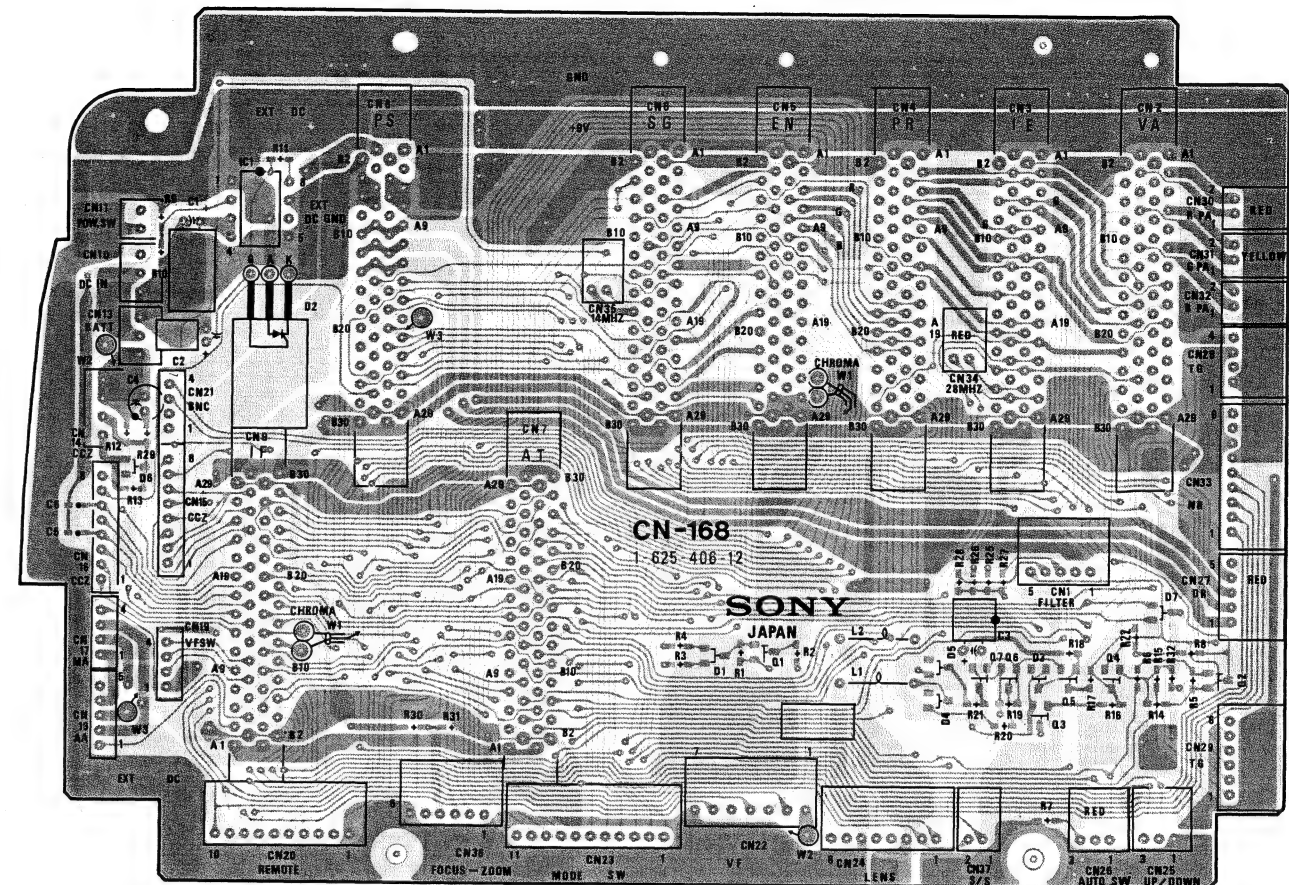
SW-169 — COMPONENT SIDE —
1-625-405-11
DXC-M7 (J, UC)

CN-168 BOARD
SW-166 BOARD
SW-167 BOARD
SW-168 BOARD
SW-169 BOARD

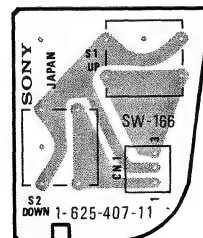
Ser.No. 10401-11350 (UC)
30351-31200 (J)



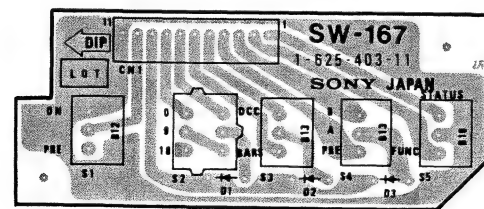
CN-168 – COMPONENT SIDE –
1-625-406-12
DXC-M7 (J, UC)



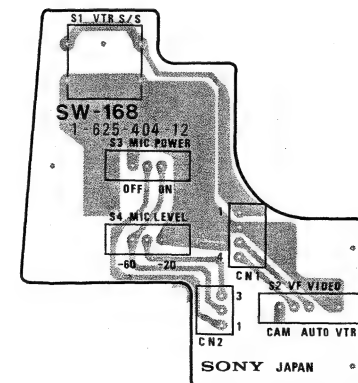
CN-168 – SOLDER SIDE –
1-625-406-12
DXC-M7 (J, UC)



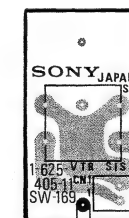
SW-166 – COMPONENT SIDE –
1-625-407-11
DXC-M7 (J, UC)



SW-167 – COMPONENT SIDE –
1-625-403-11
DXC-M7 (J, UC)



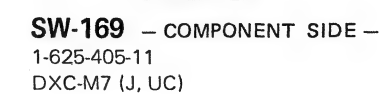
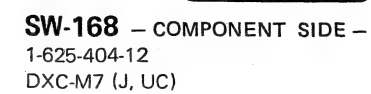
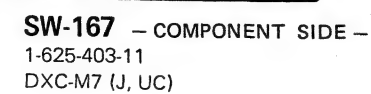
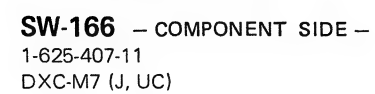
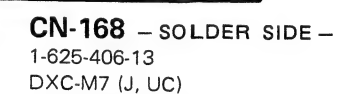
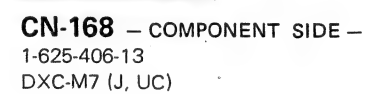
SW-168 – COMPONENT SIDE –
1-625-404-12
DXC-M7 (J, UC)



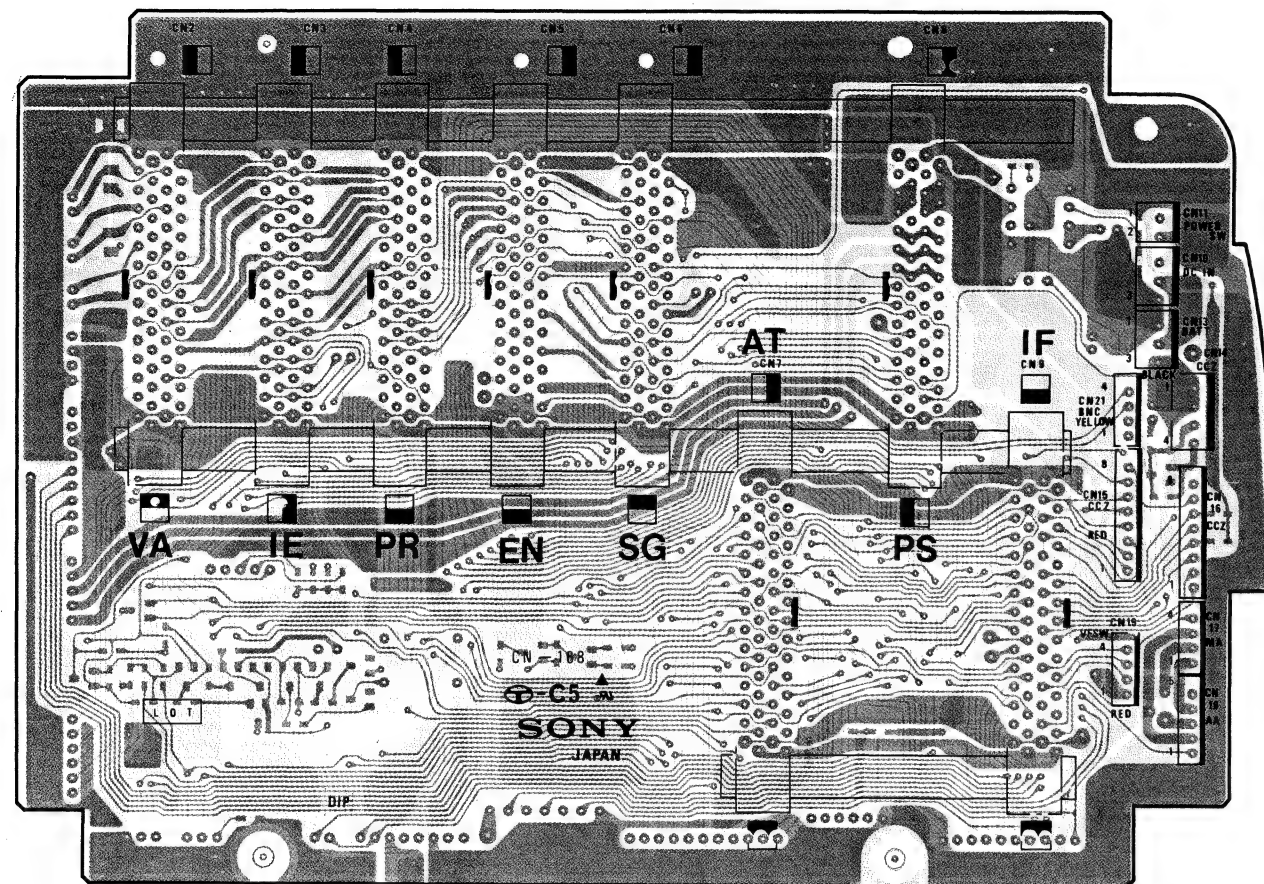
SW-169 – COMPONENT SIDE –
1-625-405-11
DXC-M7 (J, UC)

1

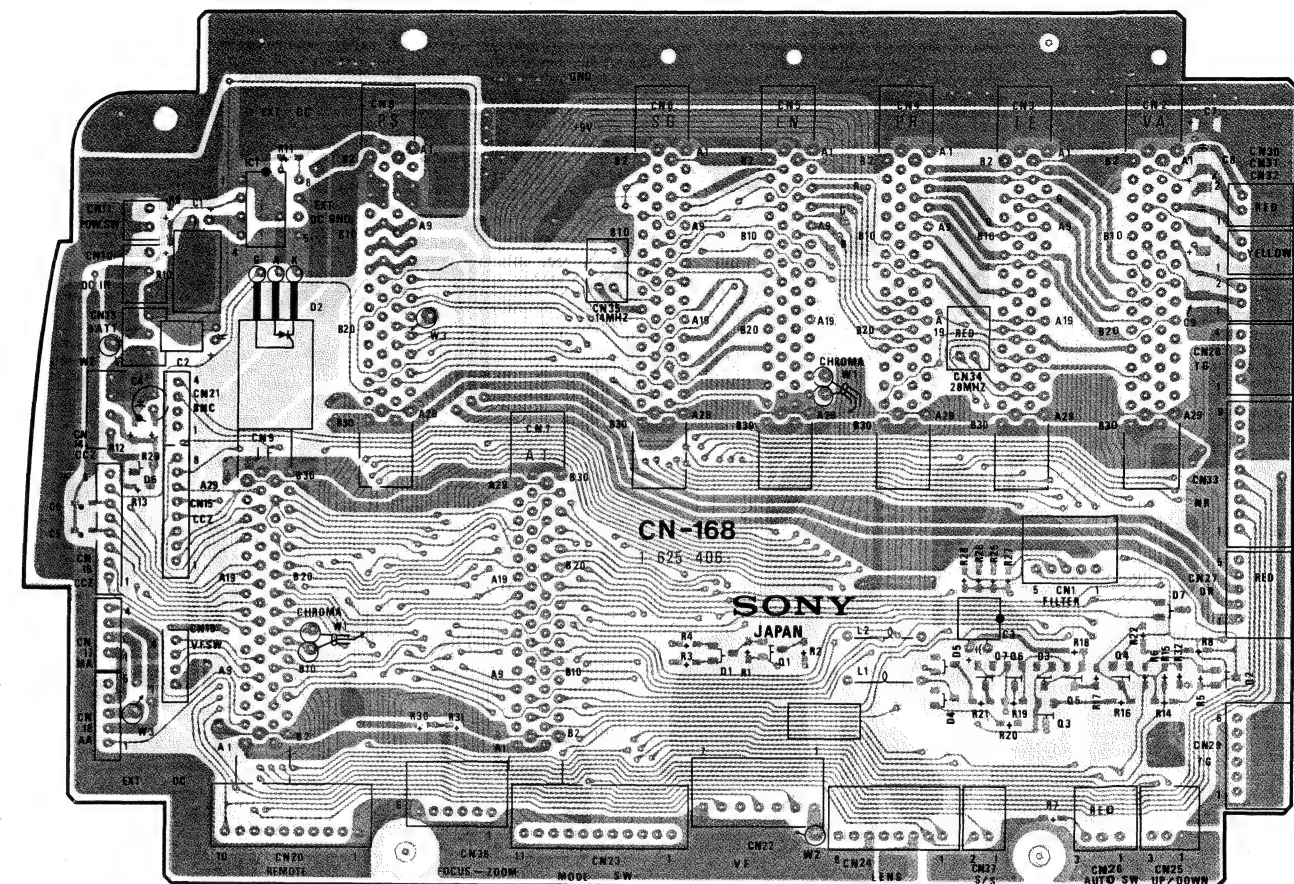
Ser.No.11351-11610 (UC)



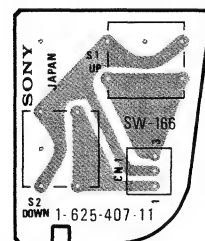
CN-168 BOARD	Ser.No.11611-	(UC)
SW-166 BOARD	31201-	(J)
SW-167 BOARD	40001-	(EK)
SW-168 BOARD	70001-	(BRZ)
SW-169 BOARD		



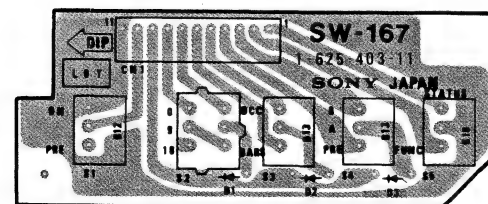
CN-168 — COMPONENT SIDE —
 1-625-406-14, 15
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)



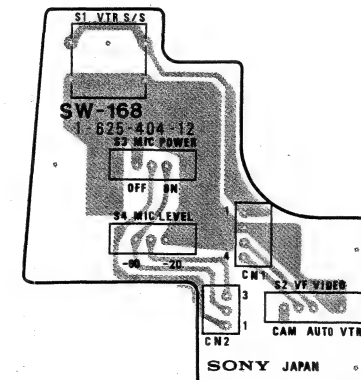
CN-168 — SOLDER SIDE —
 1-625-406-14, 15
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)



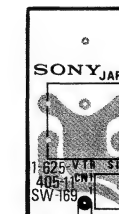
SW-166 — COMPONENT SIDE —
 1-625-407-11
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)



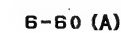
SW-167 — COMPONENT SIDE —
 1-625-403-11
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)

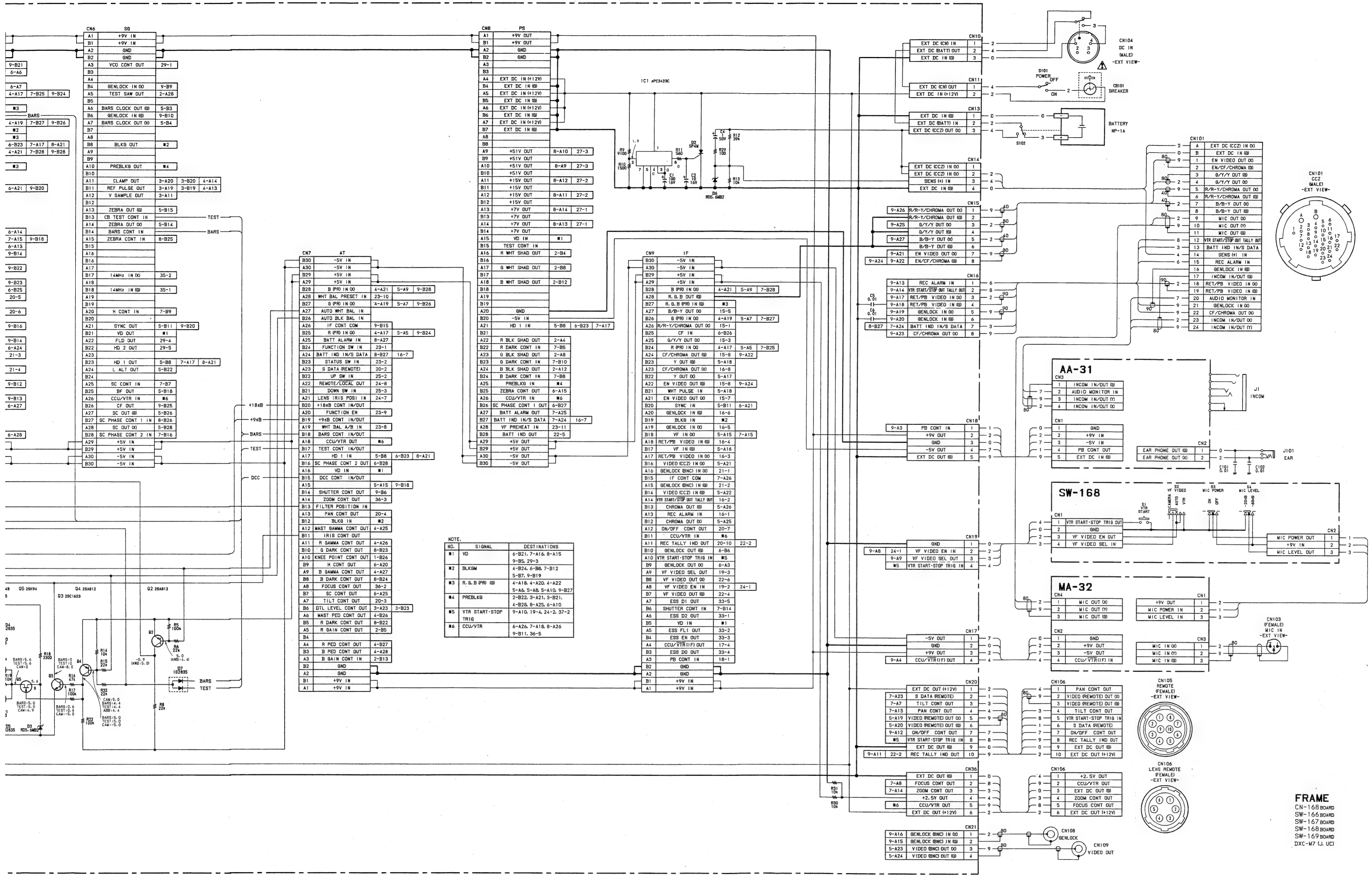


SW-168 — COMPONENT SIDE —
 1-625-404-12
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)



SW-169 — COMPONENT SIDE —
 1-625-405-11
 DXC-M7 (J, UC)
 DXC-M7P (EK)
 DXC-M7PM (BRZ)





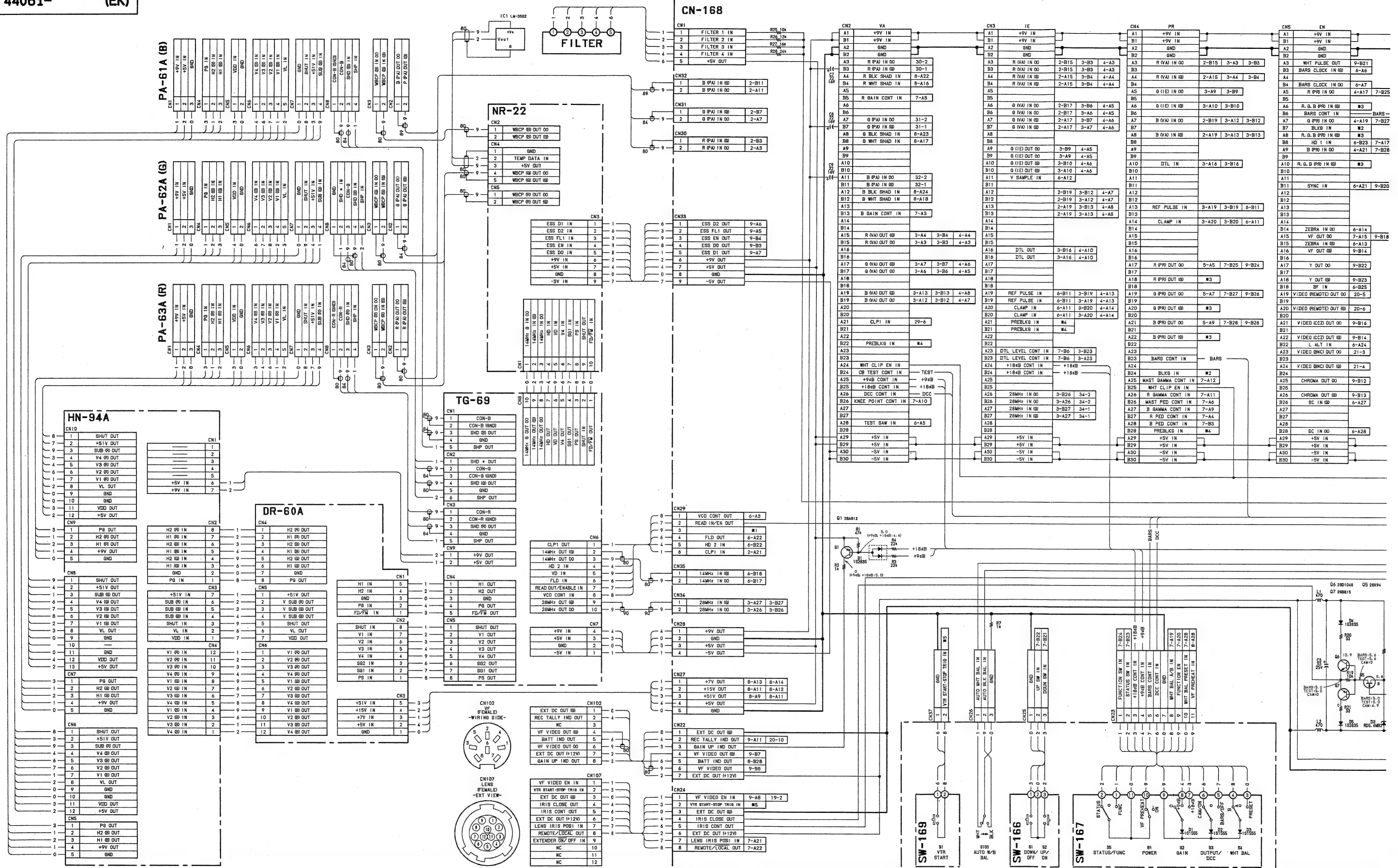
6-61(A)

6-62(A)

FRAME
 CN-168 BOARD
 SW-166 BOARD
 SW-167 BOARD
 SW-168 BOARD
 SW-169 BOARD
 DXC-W7 (J. UCI)

Ser.No.13261-
31421-
44061-
(UC)
(J)
(EK)

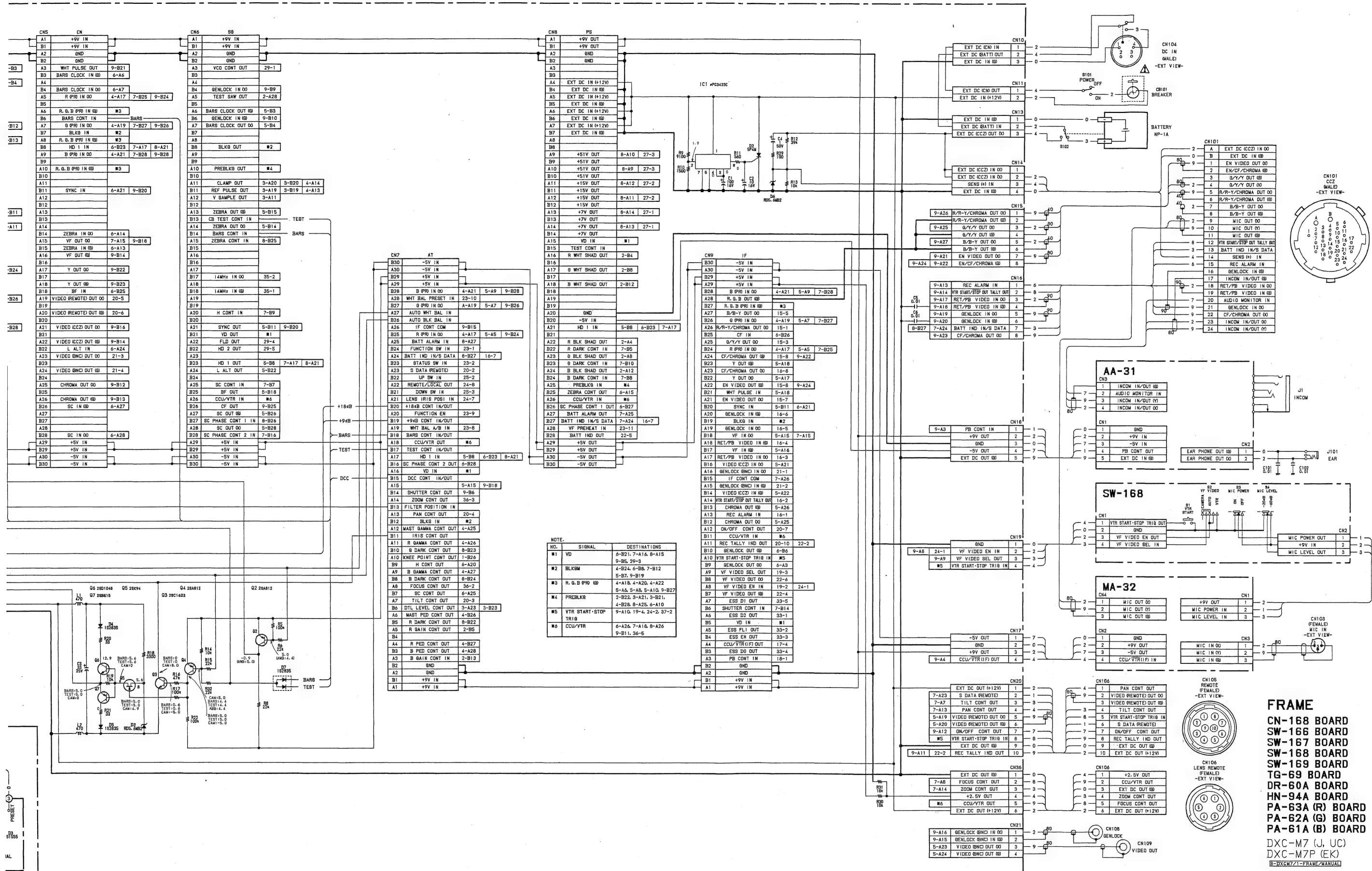
CN-168 SW-166 SW-167
SW-168 SW-169
FRAME
CN-168 SW-166 SW-167
SW-168 SW-169
FRAME



KC-M7 (J) (UC)
KC-M7P (EK)
KC-M7PM (BRZ)

6-59 (B)

6-60 (B)



FRAME
CN-168 BOARD
SW-166 BOARD
SW-167 BOARD
SW-168 BOARD
SW-169 BOARD
TG-69 BOARD
DR-60A BOARD
HN-94A BOARD
PA-63A (R) BOARD
PA-62A (G) BOARD
PA-61A (B) BOARD
DXC-M7 (J, UC)
DXC-M7P (EK)
R-DXC-M7P-FRAME/MANUAL

AA-31, MA-32 回路図

注意:

1. DC 電圧はデジタル電圧計 (入力インピーダンス $10\text{ M}\Omega$) による値。
2. MA-32 基板の DC 電圧は下記条件で測定。
 - ・ MIC POWER スイッチ → OFF 位置
 - ・ MIC LEVEL スイッチ → -20 dB 位置

AA-31, MA-32

NOTE:

1. All voltage are dc, measured with a digital voltmeter. (input impedance: $10\text{ M}\Omega$)
2. DC voltage is measured in condition below.
 - . Set camera MIC POWER selector to OFF position.
 - . Set camera MIC LEVEL selector to -20dB position.



FRAME

FRAME

注意:

1. DC電圧はデジタル電圧計(入力インピーダンス10 M Ω)による値。

FRAME

NOTE:

1. All voltage are dc, measured with a digital voltmeter. (input impedance: 10M Ω)

SECTION 7

SPARE PARTS

7-1. PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with Δ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer SONY service bulletions and service manual supplements.

3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.

4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.


5. Abbreviation


REF.No.	DESCRIPTION	REF.No.	DESCRIPTION	REF.No.	DESCRIPTION
C	CAPACITOR	IC	IC	RP	RESISTOR BLOCK
CN	CONNECTOR	J	JACK	RV	VARIABLE RESISTOR
CV	VARIABLE CAPACITOR	L	INDUCTOR	S	SWITCH
D	DIODE	LV	VARIABLE INDUCTOR	T	TRANSFORMER
DL	DELAY LINE	Q	TRANSISTOR	X	OSCILLATOR
FL	FILTER	R	RESISTOR		


All capacitors are in micro farads unless otherwise specified.
 All inductors are in micro henries unless otherwise specified.
 All resistors are in ohms.

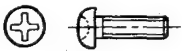
SCREW


7-2. SCREWS


+B Bzn-N  7-621-□□□-□□	
SIZE	Parts No.
2 x 3	772-00
x 4	772-10
x 5	772-20
x 6	772-30
x 8	772-40
x 10	772-50
x 12	772-60
x 14	772-70
x 16	772-80
x 20	—
2.6 x 3	775-00
x 4	775-10
x 5	775-20
x 6	773-95
x 8	775-40
x 10	775-50
x 12	775-60
x 14	775-70
x 16	775-80
x 20	775-90


+B Cr-N  7-621-□□□-□□	
SIZE	Parts No.
2 x 3	772-08
x 4	772-18
x 5	771-06
x 6	772-38
x 8	772-48
x 10	772-58
x 12	772-68
x 14	772-78
x 16	772-88
x 20	—
2.6 x 3	775-08
x 4	773-86
x 5	770-87
x 6	770-67
x 8	770-99
x 10	773-87
x 12	775-68
x 14	775-78
x 16	775-88
x 20	773-91


+B Bzn-N  7-682-□□□-□□	
SIZE	Parts No.
3 x 3	544-09
x 4	545-09
x 5	546-09
x 6	547-09
x 8	548-09
x 10	549-09
x 12	550-09
x 14	551-09
x 16	552-09
x 20	553-09
x 30	555-09
4 x 4	558-09
x 5	559-09
x 6	560-09
x 8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 20	566-09
5 x 8	574-09
x 10	575-09
x 12	576-09
x 14	577-09
x 16	578-09
x 20	579-09

+B Cr-N  7-682-□□□-□□	
SIZE	Parts No.
3 x 3	544-04
x 4	545-04
x 5	546-04
x 6	547-04
x 8	548-04
x 10	549-04
x 12	550-04
x 14	551-04
x 16	552-04
x 20	553-04
4 x 4	558-04
x 5	559-04
x 6	560-04
x 8	561-04
x 10	562-04
x 12	563-04
x 14	564-04
x 16	565-04
x 20	566-04
5 x 8	574-04
x 10	575-04
x 12	576-04
x 14	577-04
x 16	578-04
x 20	579-04


+K Bzn-N  7-682-□□□-□□	
SIZE	Parts No.
3 x 4	245-09
x 5	246-09
x 6	247-09
x 8	248-09
x 10	249-09
x 12	250-09
x 14	251-09
x 16	252-09
x 20	253-09
4 x 6	260-09
x 8	261-09
x 10	262-09
x 12	263-09
x 14	264-09
x 16	265-09
x 20	266-09
5 x 8	274-09
x 10	275-09
x 12	276-09
x 14	277-09
x 16	278-09
x 20	279-09
x 25	280-09
x 30	281-09
x 35	282-09
x 40	283-09
x 45	284-09
x 50	285-09


+K Cr-N  7-682-□□□-□□	
SIZE	Parts No.
3 x 4	245-04
x 5	246-04
x 6	247-04
x 8	248-04
x 10	249-04
x 12	250-04
x 14	251-04
x 16	252-04
x 20	253-04
4 x 6	260-04
x 8	261-04
x 10	262-04
x 12	263-04
x 14	264-04
x 16	265-04
x 20	266-04


+RK Cr-N  7-621-□□□-□□	
SIZE	Parts No.
2 x 3	655-18
x 4	661-08
x 5	661-18
x 6	655-48
x 8	655-58
x 10	661-28
x 12	661-38
x 14	661-48
2.6 x 4	662-08
x 5	662-18
x 6	662-28
x 8	662-38
x 10	662-48
x 12	659-78
x 14	662-58
x 16	662-68
x 20	660-29


+PSW Czn-N  7-682-□□□-□□	
SIZE	Parts No.
3 x 6	947-01
x 8	948-01
x 10	949-01
x 12	950-01
x 14	951-01
x 16	952-01
x 20	953-01
x 25	954-01
x 30	955-01
x 35	956-01
x 40	957-01
4 x 8	961-01
x 10	962-01
x 12	963-01
x 14	964-01
x 16	965-01
x 20	966-01
x 25	967-01
x 30	968-01
x 35	969-01
x 40	970-01

SCREW

PRECISION +K Bzn-N	
 7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.8	—
x 2	450-28
x 2.2	—
x 2.5	450-48
x 2.8	—
x 3	450-58
x 3.5	—
x 4	450-78
x 4.5	—
x 5	450-98
x 5.5	—
x 6	—
2 x 2	452-08
x 2.2	452-88
x 2.5	452-48
x 2.8	—
x 3	452-18
x 3.5	452-98
x 4	452-28
x 4.5	—
x 5	452-38
x 5.5	—
x 6	452-58
x 7	452-68
x 8	452-78
2.6 x 3.5	—
x 4	—
x 4.5	454-28
x 5	454-38
x 5.5	—
x 6	—
x 7	—
x 8	—

PRECISION +P Bzn-N	
 7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.6	552-18
x 1.8	—
x 2	552-28
x 2.2	—
x 2.5	552-08
x 2.8	—
x 3	552-38
x 3.5	552-78
x 4	552-48
x 4.5	—
x 5	552-58
x 5.5	—
x 6	—
2 x 1.8	554-38
x 2	553-18
x 2.2	—
x 2.5	553-28
x 2.8	554-58
x 3	553-38
x 3.5	554-18
x 4	553-48
x 4.5	553-58
x 5	554-28
x 5.5	—
x 6	553-68
x 7	553-88
x 8	553-98
x 10	553-78
2.6 x 2.8	556-08
x 3	—
x 3.5	556-28
x 4	556-38
x 4.5	556-48
x 5	556-58
x 5.5	—
x 6	556-78
x 7	—
x 8	—
x 9	—
x 10	—

PRECISION +P Cr-N	
 7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.6	—
x 1.8	—
x 2	552-27
x 2.2	552-87
x 2.5	552-07
x 2.8	—
x 3	552-37
x 3.5	—
x 4	552-47
x 4.5	552-67
x 5	552-57
x 5.5	557-07
x 6	552-77
2 x 1.8	554-37
x 2	553-17
x 2.2	554-07
x 2.5	553-27
x 2.8	—
x 3	553-37
x 3.5	554-17
x 4	553-47
x 4.5	553-57
x 5	553-67
x 5.5	—
x 6	554-27
x 7	553-87
x 8	553-97
x 10	553-77
2.6 x 2.8	556-07
x 3	—
x 3.5	—
x 4	556-37
x 4.5	—
x 5	556-57
x 5.5	—
x 6	556-77
x 7	—
x 8	556-97
x 9	—
x 10	557-47

PRECISION +RK Cr-N	
 7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.8	—
x 2	—
x 2.2	—
x 2.5	650-17
x 2.8	—
x 3	—
x 3.5	—
x 4	—
x 4.5	—
x 5	—
x 5.5	—
x 6	650-97
2 x 2	—
x 2.2	—
x 2.5	—
x 2.8	—
x 3	651-17
x 3.5	—
x 4	651-07
x 4.5	—
x 5	—
x 5.5	—
x 6	651-47
x 7	—
x 8	—
2.6 x 3.5	—
x 4	—
x 4.5	—
x 5	—
x 5.5	—
x 6	—
x 7	—
x 8	—
x 9	—
x 10	—

No.	Parts No.	SP Description
1	A-7420-129-A	o PANEL ASSY, FRONT
2	A-7575-111-A	s FRONT UNIT ASSY (UC, BRZ) Serial No. 10001-13260 (UC) 70001-70050 (BRZ)
	A-7575-136-A	s CCD UNIT (N) (UC) Serial No. 13261-14030
	A-7575-180-A	s CCD UNIT-CM7 (N) (UC) Serial No. 15001-
	A-7575-116-A	s FRONT UNIT ASSY (EK) Serial No. 40001-44060
	A-7575-137-A	s CCD UNIT (P) (EK) Serial No. 44061-45330
	A-7575-181-A	s CCD UNIT-CM7P (P) (EK) Serial No. 46001-
3	A-7513-649-A	o MOUNTED CIRCUIT BOARD, "TG-32" (UC) (BRZ) Serial No. 10001-13260 (UC) 70001-70050 (BRZ)
	A-7515-114-A	o MOUNTED CIRCUIT BOARD (N), "TG-69" (UC) Serial No. 13261- (UC)
	A-7513-865-A	o MOUNTED CIRCUIT BOARD, "TG-32" (EK) Serial No. 40001-44060 (EK)
	A-7515-113-A	o MOUNTED CIRCUIT BOARD (P), "TG-69" (EK) Serial No. 44061- (EK)
4	A-7513-650-A	o MOUNTED CIRCUIT BOARD, "DR-60" Serial No. 10001-13260 (UC) 40001-44060 (EK) 70001-70050 (BRZ)
	A-7515-111-A	o MOUNTED CIRCUIT BOARD, "DR-60A" Serial No. 13261- (UC) 44061- (EK)
5	1-547-259-11	o FILTER UNIT, OPTICAL
6	3-672-253-11	o RUBBER, CONDUCTIVE
7	3-678-629-00	s LEVER, MOUNT
9	3-678-684-00	o HOLDER, CABLE
10	3-688-760-01	o SPACER
11	3-688-760-11	o SPACER
12	3-688-761-01	s HOLDER, CABLE
13	3-688-781-01	s KNOB, FILTER
14	3-688-791-01	o PLATE (DR), SHIELD
15	3-701-506-01	o SET SCREW, DUBLE POINT 3X4
16	3-699-048-01	s CAP, MOUNT
17	3-707-891-01	o GEAR KIT, FILTER

REPAIR PARTS FOR DXC-M7 BLACK MODEL
(Ser. No. 12451 to 12610)


1	A-7420-171-A	o PANEL ASSY, FRONT
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NOTE:


FRONT UNIT ASSY (N) of SONY parts No. A-7575-111-A employs the white front panel. Replacing the FRONT UNIT ASSY in the DXC-M7 Black model, detach the white front panel and replace it with the black one, which was detached from the DXC-M7 Black model.


For details on replacement procedures, refer to Sections 2-3-1 "Replacing the Front Unit" and 2-3-2 "Replacing the Filter Plate, Step 2"


SCREWS FOR DXC-M7 BLACK MODEL
(Ser. No. 12451 to 12610)


+P Bzn-N	
	
7-682-□□□-□□	
SIZE	Parts No.
3 x 3	144-09
x 4	145-09
x 5	146-09
x 6	147-09
x 8	148-09
x 10	149-09
x 12	150-09
x 14	151-09
4 x 4	158-09
x 5	159-09
x 6	160-09
x 8	161-09
x 10	162-09
x 12	163-09
x 14	164-09
x 16	165-09
x 20	166-09

TOTSU P Bzn-N NON SLIT	
	
7-685-□□□-□□	
SIZE	Parts No.
2 x 4	102-19
2 x 5	103-19
2 x 6	104-19
2 x 8	105-19
2 x 10	106-19
2 x 12	107-19
2.6 x 4	131-19
2.6 x 5	132-19
2.6 x 6	133-19
2.6 x 8	134-19
2.6 x 10	135-19
2.6 x 12	136-19
2.6 x 14	137-19
2.6 x 16	138-19
3 x 5	144-19
3 x 6	145-19
3 x 8	146-19
3 x 10	147-19
3 x 12	148-19
3 x 14	149-19
3 x 16	150-19
3 x 18	
3 x 20	151-19
3 x 25	152-19
3 x 30	153-19
3 x 35	154-19
3 x 40	155-19
3 x 58	
4 x 6	158-19
4 x 8	159-19
4 x 10	160-19
4 x 12	161-19
4 x 14	162-19
4 x 16	163-19
4 x 20	164-19
4 x 25	165-19
4 x 30	166-19
4 x 35	167-19

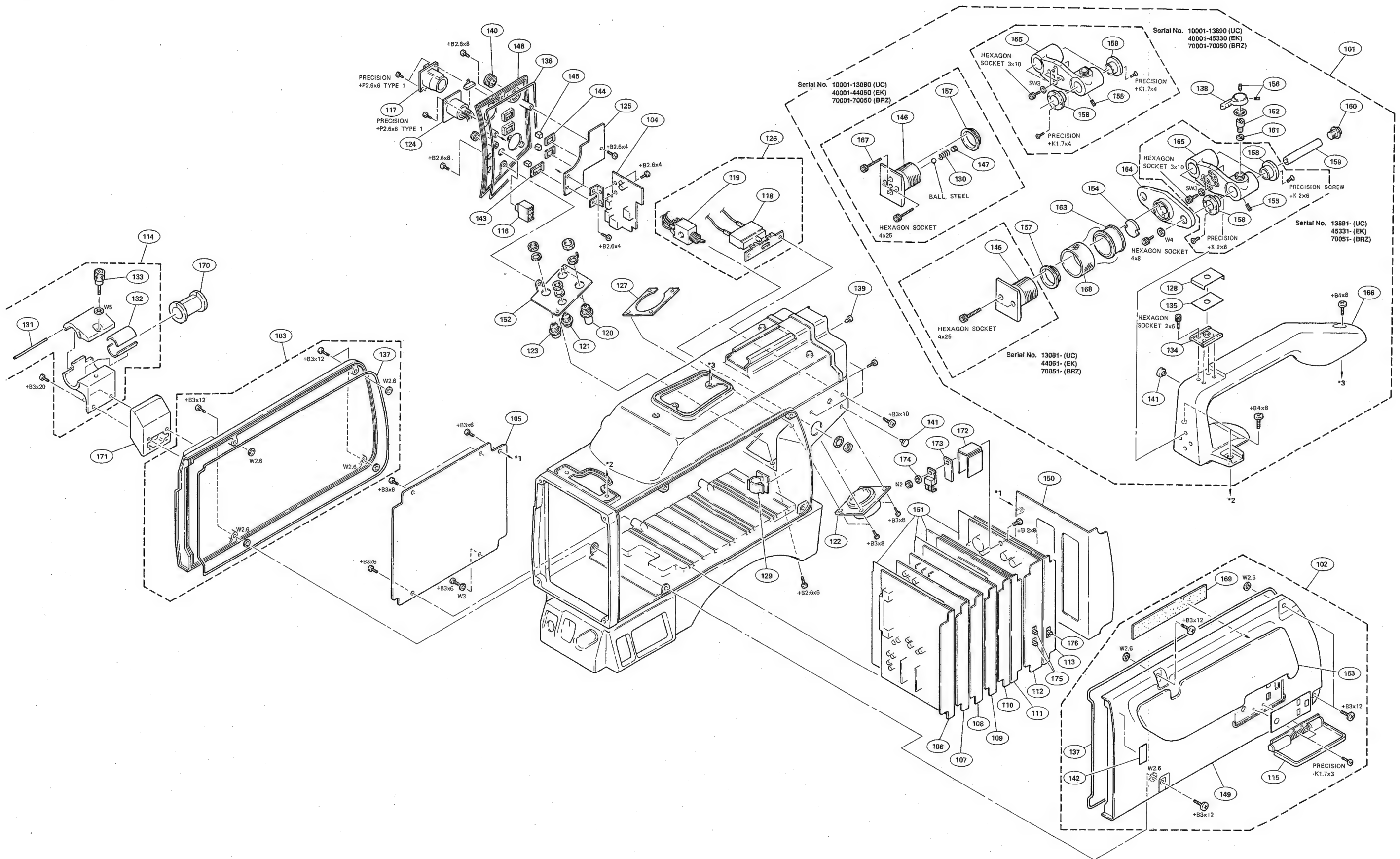
+B Bzn-N	
	
7-621-□□□-□□	
SIZE	Parts No.
2 x 3	255-10
x 4	255-20
x 5	283-00
x 6	255-40
x 8	255-50
x 10	283-10
x 12	283-70
x 14	772-70
x 16	772-80
x 20	—
2.6 x 3	259-10
x 4	284-00
x 5	284-10
x 6	284-20
x 8	284-30
x 10	284-40
x 12	259-70
x 14	259-80
x 16	260-00
x 20	260-20

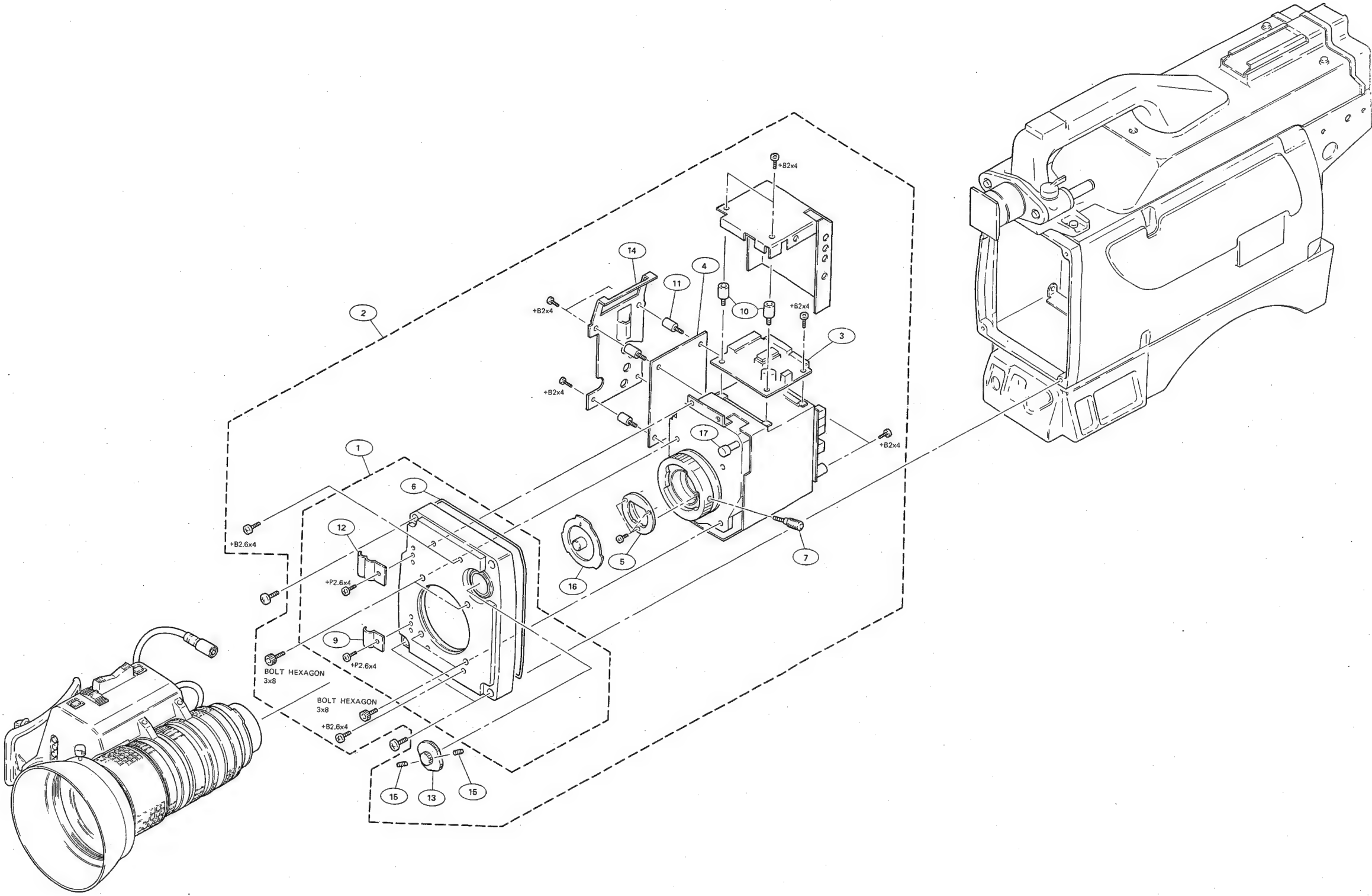
+B Bzn-N	
	
7-682-□□□-□□	
SIZE	Parts No.
3 x 3	544-09
x 4	545-09
x 5	546-09
x 6	547-09
x 8	548-09
x 10	549-09
x 12	550-09
x 14	551-09
x 16	552-09
x 20	553-09
x 30	555-09
4 x 4	558-09
x 5	559-09
x 6	560-09
x 8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 20	566-09
5 x 8	574-09
x 10	575-09
x 12	576-09
x 14	577-09
x 16	578-09
x 20	579-09

+RK Bzn-N	
	
7-621-□□□-□□	
SIZE	Parts No.
2 x 3	—
x 4	—
x 5	—
x 6	—
x 8	—
x 10	—
x 12	661-30
x 14	661-40
2.6 x 4	—
x 5	662-10
x 6	662-20
x 8	662-30
x 10	—
x 12	—
x 14	—
x 16	—
x 20	—

+BTP Bzn-N NON-SLIT	
	
7-685-□□□-□□	
SIZE	Parts No.
2.6 x 4	531-19
2.6 x 5	532-19
2.6 x 6	533-19
2.6 x 8	534-19
2.6 x 10	535-19
2.6 x 12	536-19
2.6 x 14	537-19
2.6 x 16	538-19
3 x 5	544-19
3 x 6	545-19
3 x 8	546-19
3 x 10	547-19
3 x 12	548-19
3 x 14	549-19
3 x 16	550-19
3 x 20	551-19
3 x 25	552-19
3 x 30	553-19
3 x 35	554-19
3 x 40	555-19
3 x 45	—
3 x 50	596-19
3 x 60	—

Chassis (1) Block



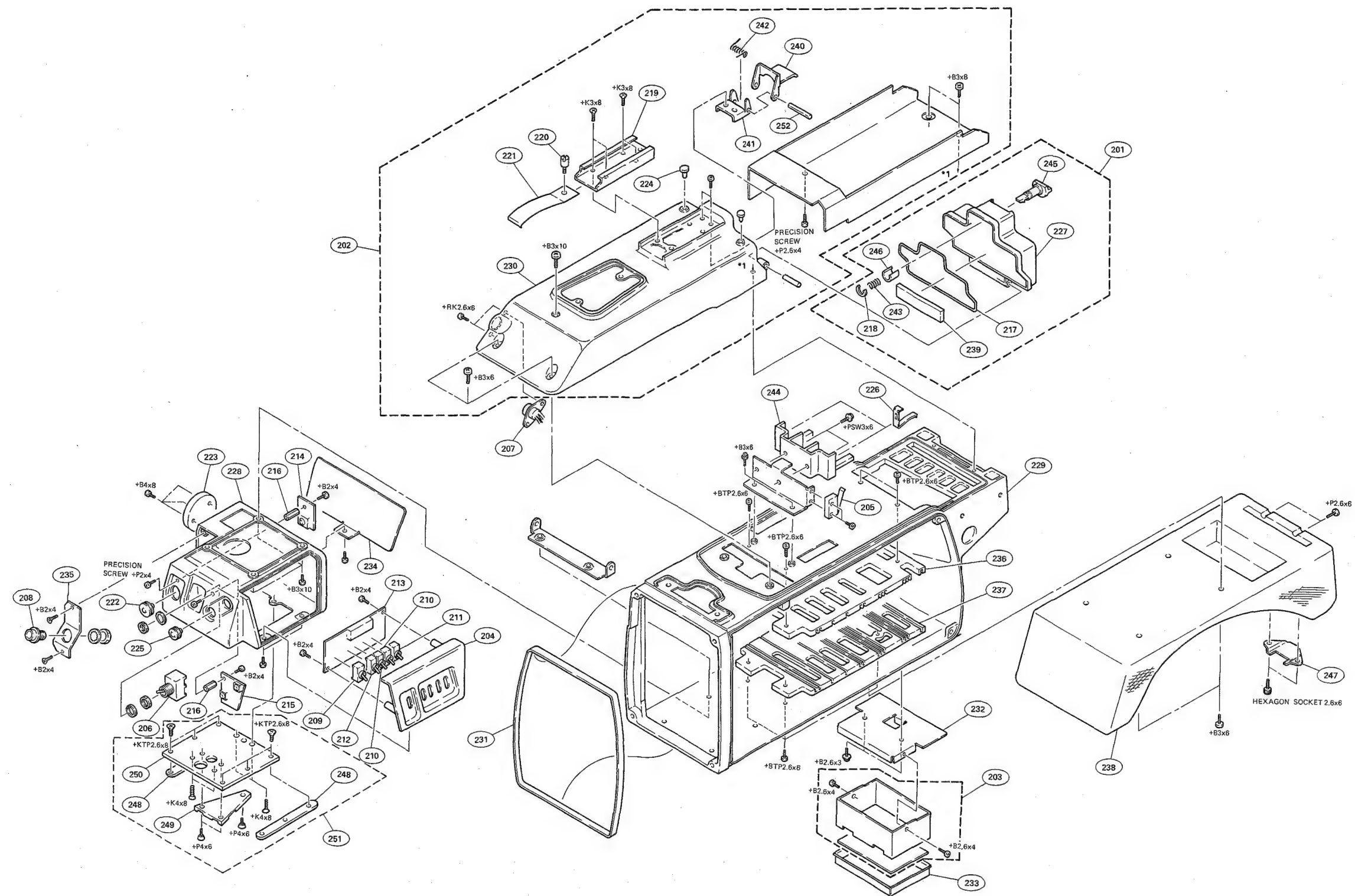


No.	Parts No.	SP Description	No.	Parts No.	SP Description
101	A-7402-943-D	o HANDLE ASSY	136	3-672-253-11	o RUBBER, CONDUCTIVE
102	A-7420-130-A	o PLATE (RIGHT) ASSY, SIDE	137	3-672-253-31	o RUBBER, CONDUCTIVE
103	A-7420-131-A	o PLATE (LEFT) ASSY, SIDE	138	3-673-046-00	s LEVER, LOCK
104	A-7513-643-A	o MOUNTED CIRCUIT BOARD "AA-31"	139	3-676-081-02	o CUSHION, TC
105	A-7513-644-A	o MOUNTED CIRCUIT BOARD "CN-168"	140	3-676-244-00	s COVER, SWITCH
106	A-7513-653-A	o MOUNTED CIRCUIT BOARD "VA-46"	141	3-725-907-01	s BUSHING, BLIND
107	A-7513-654-A	o MOUNTED CIRCUIT BOARD (N) "IE-16"	142	3-678-607-02	o LABEL, FILTER
	A-7513-867-A	o MOUNTED CIRCUIT BOARD (P) "IE-16"	143	3-680-604-01	o PLATE, BLIND
108	A-7513-885-A	o MOUNTED CIRCUIT BOARD "PR-90P"	144	3-680-604-11	o PLATE, BLIND
109	A-7513-868-A	o MOUNTED CIRCUIT BOARD (P) "EN-53"	145	3-680-605-00	o CAP, SLIDE
	A-7513-871-A	o MOUNTED CIRCUIT BOARD (PM) "EN-53"	146	3-682-718-02	o SHOE, VF SLIDE Serial No. 40001-44060 (EK) 70001-70050 (BRZ)
110	A-7513-869-A	o MOUNTED CIRCUIT BOARD (P) "SG-120"		3-725-920-01	o SHOE, VF SLIDE Serial No. 44061- (EK) 70051- (BRZ)
	A-7513-872-A	o MOUNTED CIRCUIT BOARD (PM) "SG-120"	147	3-682-760-01	o SCREW (M7-0.75), ADJUSTMENT Serial No. 40001-44060 (EK) 70001-70050 (BRZ)
111	A-7513-658-A	o MOUNTED CIRCUIT BOARD "AT-46"	148	3-688-737-01	o PLATE, CONNECTOR
112	A-7513-659-A	o MOUNTED CIRCUIT BOARD "PS-141"	149	3-688-743-01	o PLATE (RIGHT), SIDE
113	A-7513-870-A	o MOUNTED CIRCUIT BOARD (P) "IF-142"	150	3-688-746-01	o PANEL, BLIND
	A-7513-873-A	o MOUNTED CIRCUIT BOARD (PM) "IF-142"	151	3-688-747-01	o PLATE, SHIELD, PC BOARD
114	X-3680-612-1	s HOLDER ASSY, MICROPHONE	152	3-688-765-01	o PLATE, CONNECTOR
115	X-3680-640-1	o LID ASSY, SIDE SW	153	3-688-780-01	s PAT, SIDE
116	1-507-682-00	s JACK "EARPHONE"	154	3-688-785-01	o SPACER, VF SHOE
117	1-509-184-51	s RECEPTACLE, 3P MALE "MIC IN"	155	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
118	1-532-997-11	s CIRCUIT BREAKER "BREAKER"	156	3-701-508-00	s SET SCREW, DOUBLE POINT 3X6
119	1-554-934-11	s SWITCH, TOGGLE "POWER"	157	3-710-018-01	s COLLAR, SLIDE
120	1-561-781-11	s RECEPTACLE, BNC "GENLOCK" "VIDEO OUT"	158	3-711-790-01	o SPACER(A)
			159	3-711-791-01	o ARM
121	1-562-222-41	s RECEPTACLE, 6P FEMALE "LENS REMOTE"	160	3-711-792-01	o SCREW
122	1-562-244-00	o RECEPTACLE, 26P MALE	161	3-711-793-01	o CUSHION (STOPPER)
123	1-562-782-21	s RECEPTACLE, 10P FEMALE "REMOTE"	162	3-711-794-01	o PIN, STOPPER
124	1-564-603-11	s RECEPTACLE(WITH DC SW) 4P FEMALE "DC IN"	163	3-711-795-11	o RING (B), LOCK
125	1-625-404-12	o PRINTED CIRCUIT BOARD "SW-168"	164	3-711-796-11	o TABLE, FIXED, VF SHOE Serial No. 40001-44060 (EK) 70001-70050 (BRZ)
126	1-940-357-11	o HARNESS (POW SW)		3-711-796-13	o TABLE, FIXED, VF SHOE Serial No. 44061- (EK) 70051- (BRZ)
127	2-090-229-00	s NUT, PLATE	165	3-711-797-04	o TABLE, FIXED, VF SLIDE Serial No. 40001-45330 (EK) 70001-70050 (BRZ)
128	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA SHOE		3-711-797-07	o TABLE, FIXED, VF SLIDE Serial No. 45331- (EK) 70051- (BRZ)
129	3-621-212-21	s CLAMP, DKN	166	3-688-797-01	s HANDLE
130	3-641-622-00	o SPRING, COMPRESSION Serial No. 40001-44060 (EK) 70001-70050 (BRZ)	167	4-904-818-01	s BOLT (3X25), HEXAGON HOLE Serial No. 40001-44060 (EK) 70001-70050 (BRZ)
131	3-646-570-00	s PIN	168	3-720-919-01	o RUBBER, LOCK RING
132	3-657-643-04	s CUSHION, MICROPHONE	169	3-683-588-11	o RETAINER (S), PC
133	3-657-657-00	s SCREW(M5)	170	3-680-582-01	o HOLDER (B), MICROPHONE
134	3-657-700-00	s BRACKET, ACCESSORY	171	3-688-777-01	o SPACER, MIC HOLDER
135	3-672-213-00	o SHEET, ADHESIVE	172	X-3680-647-1	o HEAT SINK ASSY
			173	3-725-912-01	o RUBBER, RADIATION
			174	2-832-007-00	s BUSHING (K), INSULATING
			175	3-688-792-01	o KNOB (A), SWITCH
			176	3-688-793-01	o KNOB (B), SWITCH

No.	Parts No.	SP Description
201	A-7420-127-C	o LID ASSY, BATTERY
202	A-7420-128-A	o CHASSIS ASSY, TOP
203	A-7513-645-A	o MOUNTED CIRCUIT BOARD, "MA-32"
204	X-3680-639-1	s COVER ASSY, SIDE SW
205	1-552-665-00	s SWITCH, MICRO
206	1-554-486-00	s SWITCH, TOGGLE "WHT"
207	1-561-320-31	s DIN SOCKET 8P "VF"
208	1-562-221-21	s RECEPTACLE, 12P FEMALE "LENS"
209	1-570-984-11	s SWITCH, TOGGLE "POWER"
210	1-570-985-11	s SWITCH, TOGGLE "OUTPUT" "WHT BAL"
211	1-571-396-11	s SWITCH, TOGGLE "STATUS"
212	1-571-397-11	s SWITCH, TOGGLE "GAIN"
213	1-625-403-11	o PRINTED CIRCUIT BOARD, "SW-167"
214	1-625-405-11	o PRINTED CIRCUIT BOARD, "SW-169"
215	1-625-407-11	o PRINTED CIRCUIT BOARD, "SW-166"
216	2-527-546-00	o SUPPORT(B)
217	3-472-189-00	s BELT, TAPE COUNTER Serial No. 10001-13530 (UC) 40001-44060 (EK) 70001-70050 (BRZ)
218	3-618-078-00	s RING, RETAINING, CE TYPE
219	3-664-218-00	o SHUE
220	3-664-213-00	o SCREW, STOPPER
221	3-664-228-00	o PLATE, SPRING
222	3-672-221-02	s PACKING, CONTROL
223	3-672-233-00	o COVER Serial No. 10001-12960 (UC) 40001-44060 (EK) 70001-70050 (BRZ)
224	3-673-018-00	s SCREW, BLIND
225	3-676-244-00	s COVER, SWITCH
226	3-676-314-00	s CONTACT
227	3-688-735-03	s LID, BATTERY
228	3-688-738-01	o BOX, FRONT SW
229	3-688-739-01	o CABINET
230	3-688-742-02	o COVER, TOP
231	3-688-744-01	o RUBBER, PACKING
232	3-688-745-01	o BRACKET, MA PC BOARD
233	3-688-748-01	o CASE (LID), SHIELD
234	3-688-750-01	o COVER, SWITCH BOX
235	3-688-766-01	o PLATE, CONNECTOR LENS
236	3-688-783-01	o RAIL (UPPER), PC BOARD
237	3-688-784-01	o RAIL (LOWER), PC BOARD
238	3-688-790-01	s PAD, SHOULDER
239	3-699-028-01	s CUSHION, BATT
240	3-699-029-02	o LINK, LOCK
241	3-699-030-01	o HOLDER, LOCK
242	3-699-031-01	o SPRING(A)
243	3-699-033-01	o SPRING(B)
244	3-699-043-02	o HOLDER, CONTACT
245	3-699-049-01	s KNOB, BATT
246	3-699-061-01	o SPACER(C)
247	3-711-703-01	o STOPPER
248	3-716-390-01	o GUARD, CAMERA SHOE
249	3-716-391-01	o WEDGE, MOUNTING
250	3-716-392-01	s SHOE, CAMERA
251	A-7612-298-A	s SHOE ASSY, V
252	7-626-317-51	s PIN, SPRING 2.5x20

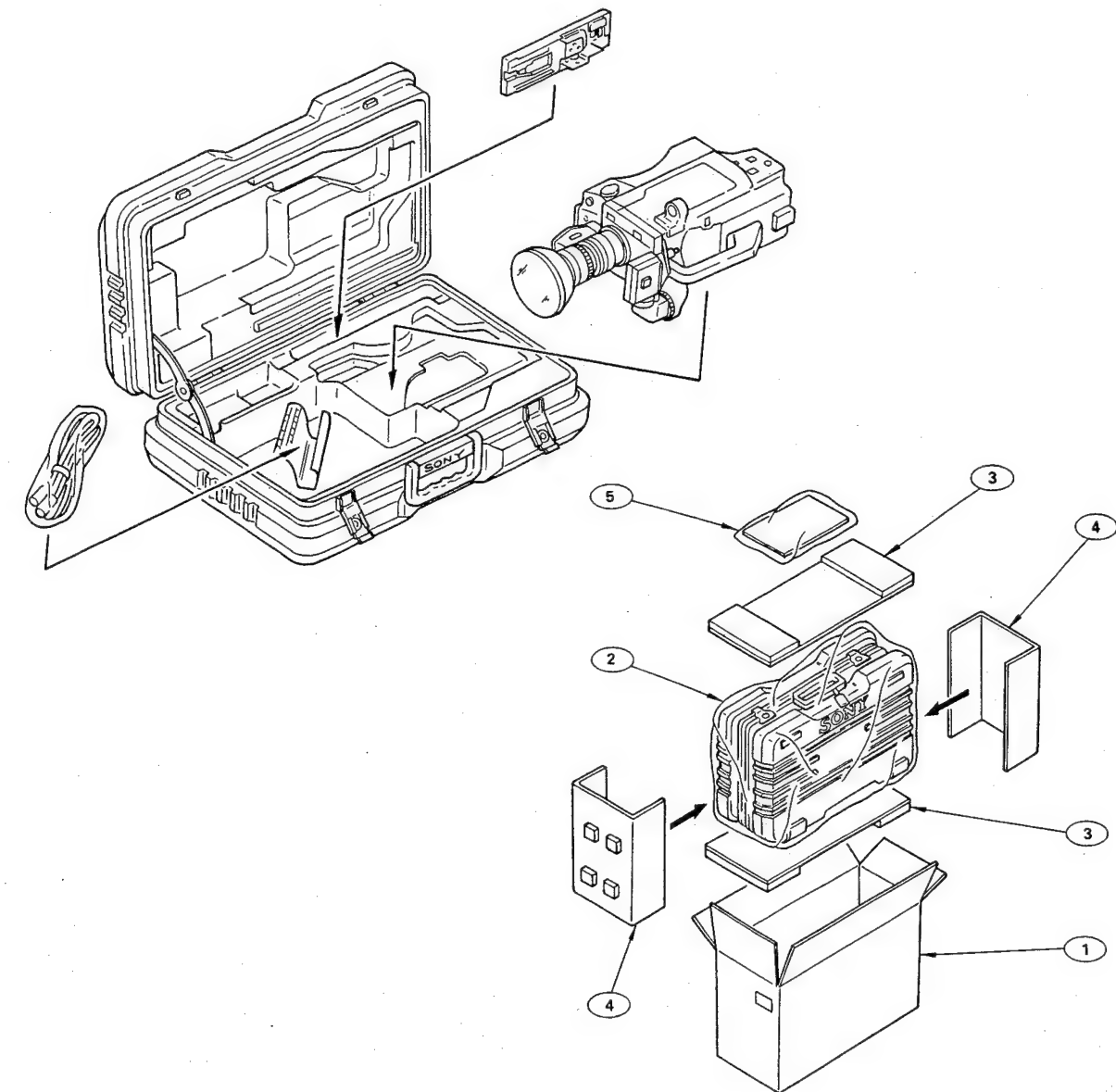
No.	Parts No.	SP Description
REPAIR PARTS FOR DXC-M7 BLACK MODEL (Ser. No. 12451 to 12610)		
201	A-7420-167-A	o LID ASSY, BATTERY
202	A-7420-168-A	o CHASSIS ASSY, TOP
204	X-3680-649-1	s COVER ASSY, SIDE SW
227	3-688-735-11	s LID, BATTERY
228	3-688-738-11	o BOX, FRONT SW
229	3-688-739-11	o CABINET
230	3-688-742-11	o COVER, TOP

Chassis (2) Block

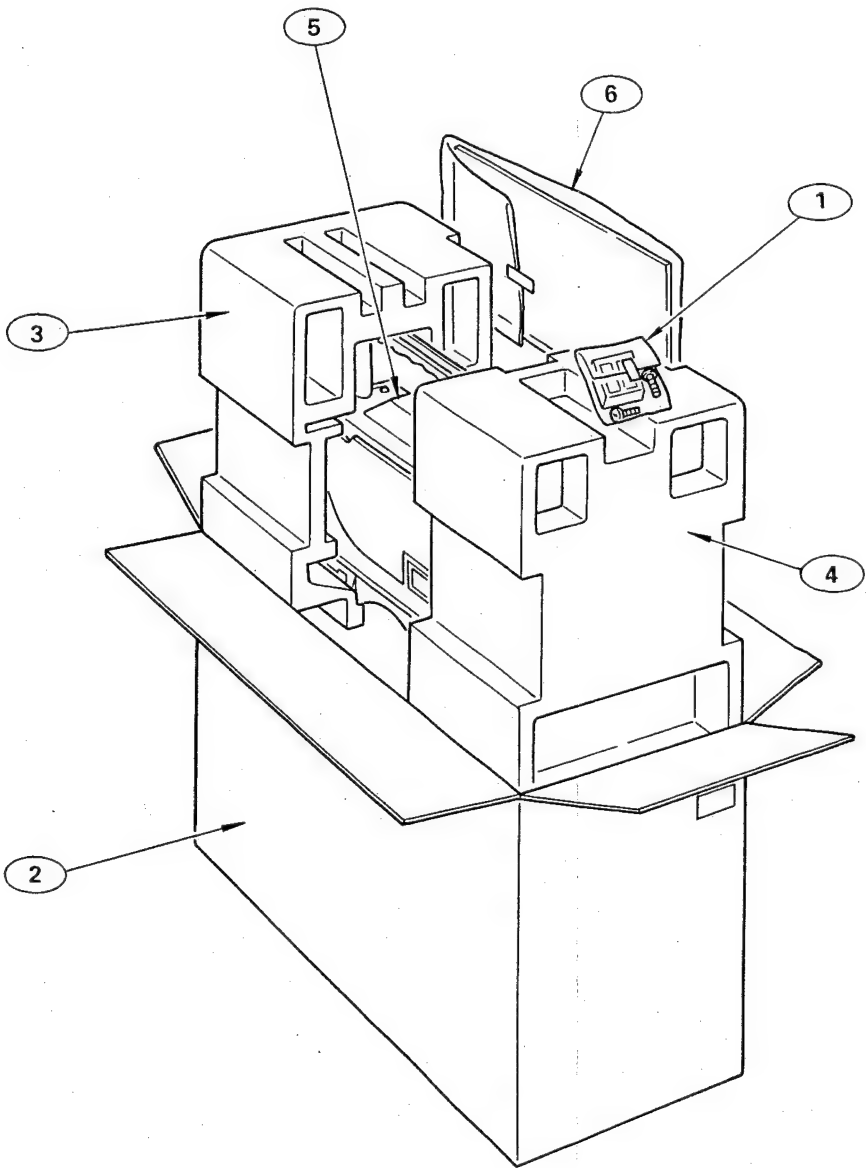


7-3. PACKING MATERIAL AND ACCESSORIES

No.	Parts No.	SP Description
DXC-M7/M7K/M7P/M7PK/M7PMK		
1	3-688-798-03	o CARTON, INDIVIDUAL (DXC-M7)
	2-381-489-03	o CARTON, INDIVIDUAL (DXC-M7P)
	2-381-490-03	o CARTON, INDIVIDUAL (DXC-M7PK)
	2-381-488-01	o CARTON, INDIVIDUAL (DXC-M7PMK)
2	3-701-649-00	s BAG, POLY
3	3-725-901-01	o CUSHION, UPPER LOWER
4	3-725-902-01	o PLATE
5	3-769-796-11	s MANUAL, INSTRUCTION (ENGLISH) (DXC-M7P/M7PK/M7PMK)
	3-769-796-21	s MANUAL, INSTRUCTION (ENGLISH) (DXC-M7/M7K)
	3-769-796-31	s MANUAL, INSTRUCTION (FRENCH) (DXC-M7P/M7PK)
	3-769-796-41	s MANUAL, INSTRUCTION (GERMAN) (DXC-M7P/M7PK)
	3-769-796-51	s MANUAL, INSTRUCTION (CHINESE) (DXC-M7P/M7PK)
	3-786-807-41	s MANUAL, INSTRUCTION (ENGLISH) (DXC-M7PMK)
	3-701-630-00	s BAG, POLY
	3-764-889-01	o CHART, ADJUSTMENT



No.	Parts No.	SP Description
DXC-M7H/M7PH		
1	3-688-777-01	o SPACER, MIC HOLDER
	3-701-619-00	s BAG, POLY
	7-682-553-04	s SCREW +B 3x20
2	3-688-794-02	o CARTON, INDIVIDUAL (DXC-M7H)
	2-381-491-01	o CARTON, INDIVIDUAL (DXC-M7PH)
3	3-688-795-01	o CUSHION (FRONT)
4	3-688-796-01	o CUSHION (REAR)
5	3-701-637-00	s BAG, POLY
6	3-769-796-11	s MANUAL, INSTRUCTION (ENGLISH) (DXC-M7PH)
	3-769-796-21	s MANUAL, INSTRUCTION (ENGLISH) (DXC-M7H)
	3-769-796-31	s MANUAL, INSTRUCTION (FRENCH) (DXC-M7PH)
	3-769-796-41	s MANUAL, INSTRUCTION (GERMAN) (DXC-M7PH)
	3-769-796-51	s MANUAL, INSTRUCTION (CHINESE) (DXC-M7PH)
	3-701-630-00	s BAG, POLY
	3-764-889-01	o CHART, ADJUSTMENT



7-4. ELECTRICAL PARTS LIST

Parts that are not listed in the "reference numbers order list" are shown in following list reference are omitted.

Part No. SP Description

CAPACITOR, TANTALUM

1-131-396-11	s	CAP, TANTALUM	0.01	20%	35V
1-131-397-11	s	CAP, TANTALUM	0.015	20%	35V
1-131-398-11	s	CAP, TANTALUM	0.022	20%	35V
1-131-399-11	s	CAP, TANTALUM	0.033	20%	35V
1-131-400-11	s	CAP, TANTALUM	0.047	20%	35V
1-131-401-21	s	CAP, TANTALUM	0.068	10%	35V
1-131-341-21	s	CAP, TANTALUM	0.1	10%	35V
1-131-342-21	s	CAP, TANTALUM	0.15	10%	35V
1-131-343-21	s	CAP, TANTALUM	0.22	10%	35V
1-131-344-21	s	CAP, TANTALUM	0.33	10%	35V
1-131-412-11	s	CAP, TANTALUM	0.47	20%	20V
1-131-345-21	s	CAP, TANTALUM	0.47	10%	35V
1-131-410-11	s	CAP, TANTALUM	0.68	20%	25V
1-131-346-21	s	CAP, TANTALUM	0.68	10%	35V
1-131-413-11	s	CAP, TANTALUM	1.0	20%	20V
1-131-347-21	s	CAP, TANTALUM	1.0	10%	35V
1-131-416-11	s	CAP, TANTALUM	1.5	20%	16V
1-131-348-21	s	CAP, TANTALUM	1.5	10%	35V
1-131-419-11	s	CAP, TANTALUM	2.2	20%	10V
1-131-361-21	s	CAP, TANTALUM	2.2	10%	20V
1-131-349-21	s	CAP, TANTALUM	2.2	10%	35V
1-131-422-11	s	CAP, TANTALUM	3.3	20%	6.3V
1-131-368-21	s	CAP, TANTALUM	3.3	10%	16V
1-131-356-21	s	CAP, TANTALUM	3.3	10%	25V
1-131-350-21	s	CAP, TANTALUM	3.3	10%	35V
1-131-425-11	s	CAP, TANTALUM	4.7	20%	3.15V
1-131-375-21	s	CAP, TANTALUM	4.7	10%	10V
1-131-363-21	s	CAP, TANTALUM	4.7	10%	20V
1-131-351-21	s	CAP, TANTALUM	4.7	10%	35V
1-131-382-21	s	CAP, TANTALUM	6.8	10%	6.3V
1-131-370-21	s	CAP, TANTALUM	6.8	10%	16V
1-131-358-21	s	CAP, TANTALUM	6.8	10%	25V
1-131-352-21	s	CAP, TANTALUM	6.8	10%	35V
1-131-389-21	s	CAP, TANTALUM	10	10%	3.15V
1-131-377-21	s	CAP, TANTALUM	10	10%	10V
1-131-365-21	s	CAP, TANTALUM	10	10%	20V
1-131-353-21	s	CAP, TANTALUM	10	10%	35V
1-131-384-21	s	CAP, TANTALUM	15	10%	6.3V
1-131-372-21	s	CAP, TANTALUM	15	10%	16V
1-131-360-21	s	CAP, TANTALUM	15	10%	25V
1-131-391-21	s	CAP, TANTALUM	22	10%	3.15V
1-131-379-21	s	CAP, TANTALUM	22	10%	10V
1-131-367-21	s	CAP, TANTALUM	22	10%	20V
1-131-386-21	s	CAP, TANTALUM	33	10%	6.3V
1-131-374-21	s	CAP, TANTALUM	33	10%	16V
1-131-393-21	s	CAP, TANTALUM	47	10%	3.15V
1-131-381-21	s	CAP, TANTALUM	47	10%	10V
1-131-388-21	s	CAP, TANTALUM	68	10%	6.3V
1-131-395-21	s	CAP, TANTALUM	100	10%	3.15V

Part No. SP Description

CAPACITOR, ELECTROLYTIC

1-124-463-11	s	CAP, ELECT	0.1	20%	50V
1-124-464-11	s	CAP, ELECT	0.22	20%	50V
1-124-252-11	s	CAP, ELECT	0.33	20%	50V
1-124-465-21	s	CAP, ELECT	0.47	20%	50V
1-124-438-11	s	CAP, ELECT	1.0	20%	50V
1-124-257-11	s	CAP, ELECT	2.2	20%	50V
1-124-258-11	s	CAP, ELECT	3.3	20%	50V
1-124-245-11	s	CAP, ELECT	4.7	20%	35V
1-124-259-11	s	CAP, ELECT	4.7	20%	50V
1-124-462-11	s	CAP, ELECT	10	20%	16V
1-124-247-11	s	CAP, ELECT	10	20%	35V
1-124-261-11	s	CAP, ELECT	10	20%	50V
1-124-222-11	s	CAP, ELECT	22	20%	6.3V
1-124-234-11	s	CAP, ELECT	22	20%	16V
1-124-248-11	s	CAP, ELECT	22	20%	35V
1-124-431-11	s	CAP, ELECT	33	20%	4V
1-124-229-11	s	CAP, ELECT	33	20%	10V
1-124-242-11	s	CAP, ELECT	33	20%	25V
1-124-224-11	s	CAP, ELECT	47	20%	6.3V
1-124-236-11	s	CAP, ELECT	47	20%	16V
1-124-584-11	s	CAP, ELECT	100	20%	10V

Part No. SP Description

CAPACITOR, CHIP CERAMIC

1-163-083-00	s	CAP, CHIP CERAMIC	1pF	±0.25pF	50V
1-163-085-00	s	CAP, CHIP CERAMIC	2pF	±0.25pF	50V
1-163-087-00	s	CAP, CHIP CERAMIC	4pF	±0.25pF	50V
1-163-089-00	s	CAP, CHIP CERAMIC	6pF	±0.5pF	50V
1-163-091-00	s	CAP, CHIP CERAMIC	8pF	±0.5pF	50V
1-163-093-00	s	CAP, CHIP CERAMIC	10pF	5%	50V
1-163-097-00	s	CAP, CHIP CERAMIC	15pF	5%	50V
1-163-101-00	s	CAP, CHIP CERAMIC	22pF	5%	50V
1-163-105-00	s	CAP, CHIP CERAMIC	33pF	5%	50V
1-163-109-00	s	CAP, CHIP CERAMIC	47pF	5%	50V
1-163-113-00	s	CAP, CHIP CERAMIC	68pF	5%	50V
1-163-117-00	s	CAP, CHIP CERAMIC	100pF	5%	50V
1-163-121-00	s	CAP, CHIP CERAMIC	150pF	5%	50V
1-163-125-00	s	CAP, CHIP CERAMIC	220pF	5%	50V
1-163-129-00	s	CAP, CHIP CERAMIC	330pF	5%	50V
1-163-133-00	s	CAP, CHIP CERAMIC	470pF	5%	50V
1-163-137-00	s	CAP, CHIP CERAMIC	680pF	5%	50V
1-163-141-00	s	CAP, CHIP CERAMIC	1000pF	5%	50V
1-163-145-00	s	CAP, CHIP CERAMIC	1500pF	10%	50V
1-163-013-00	s	CAP, CHIP CERAMIC	2200pF	10%	50V
1-163-015-00	s	CAP, CHIP CERAMIC	3300pF	10%	50V
1-163-017-00	s	CAP, CHIP CERAMIC	4700pF	10%	50V
1-163-019-00	s	CAP, CHIP CERAMIC	6800pF	10%	50V
1-163-021-00	s	CAP, CHIP CERAMIC	0.01	10%	50V
1-163-023-00	s	CAP, CHIP CERAMIC	0.015	10%	50V
1-163-034-00	s	CAP, CHIP CERAMIC	0.033		50V
1-163-035-00	s	CAP, CHIP CERAMIC	0.047		50V
1-163-036-00	s	CAP, CHIP CERAMIC	0.068		50V
1-163-038-00	s	CAP, CHIP CERAMIC	0.1		50V

Part No. SP Description

RESISTOR, CHIP

1-216-295-00	s	RES, CHIP	0	5%	1/10W
1-216-298-00	s	RES, CHIP	2.2	5%	1/10W
1-216-302-00	s	RES, CHIP	2.7	5%	1/10W
1-216-304-00	s	RES, CHIP	3.3	5%	1/10W
1-216-306-00	s	RES, CHIP	3.9	5%	1/10W
1-216-308-00	s	RES, CHIP	4.7	5%	1/10W
1-216-309-00	s	RES, CHIP	5.6	5%	1/10W
1-216-311-00	s	RES, CHIP	6.8	5%	1/10W
1-216-313-00	s	RES, CHIP	8.2	5%	1/10W
1-216-001-00	s	RES, CHIP	10	5%	1/10W
1-216-003-00	s	RES, CHIP	12	5%	1/10W
1-216-005-00	s	RES, CHIP	15	5%	1/10W
1-216-007-00	s	RES, CHIP	18	5%	1/10W
1-216-009-00	s	RES, CHIP	22	5%	1/10W
1-216-011-00	s	RES, CHIP	27	5%	1/10W
1-216-013-00	s	RES, CHIP	33	5%	1/10W
1-216-015-00	s	RES, CHIP	39	5%	1/10W
1-216-017-00	s	RES, CHIP	47	5%	1/10W
1-216-019-00	s	RES, CHIP	56	5%	1/10W
1-216-021-00	s	RES, CHIP	68	5%	1/10W
1-216-023-00	s	RES, CHIP	82	5%	1/10W
1-216-025-00	s	RES, CHIP	100	5%	1/10W
1-216-027-00	s	RES, CHIP	120	5%	1/10W
1-216-029-00	s	RES, CHIP	150	5%	1/10W
1-216-031-00	s	RES, CHIP	180	5%	1/10W
1-216-033-00	s	RES, CHIP	220	5%	1/10W
1-216-035-00	s	RES, CHIP	270	5%	1/10W
1-216-037-00	s	RES, CHIP	330	5%	1/10W
1-216-039-00	s	RES, CHIP	390	5%	1/10W
1-216-041-00	s	RES, CHIP	470	5%	1/10W
1-216-043-00	s	RES, CHIP	560	5%	1/10W
1-216-045-00	s	RES, CHIP	680	5%	1/10W
1-216-047-00	s	RES, CHIP	820	5%	1/10W
1-216-049-00	s	RES, CHIP	1k	5%	1/10W
1-216-051-00	s	RES, CHIP	1.2k	5%	1/10W
1-216-053-00	s	RES, CHIP	1.5k	5%	1/10W
1-216-055-00	s	RES, CHIP	1.8k	5%	1/10W
1-216-057-00	s	RES, CHIP	2.2k	5%	1/10W
1-216-059-00	s	RES, CHIP	2.7k	5%	1/10W
1-216-061-00	s	RES, CHIP	3.3k	5%	1/10W
1-216-063-00	s	RES, CHIP	3.9k	5%	1/10W
1-216-065-00	s	RES, CHIP	4.7k	5%	1/10W
1-216-067-00	s	RES, CHIP	5.6k	5%	1/10W
1-216-069-00	s	RES, CHIP	6.8k	5%	1/10W
1-216-071-00	s	RES, CHIP	8.2k	5%	1/10W

Part No. SP Description

1-216-073-00	s	RES, CHIP	10k	5%	1/10W
1-216-075-00	s	RES, CHIP	12k	5%	1/10W
1-216-077-00	s	RES, CHIP	15k	5%	1/10W
1-216-079-00	s	RES, CHIP	18k	5%	1/10W
1-216-081-00	s	RES, CHIP	22k	5%	1/10W
1-216-083-00	s	RES, CHIP	27k	5%	1/10W
1-216-085-00	s	RES, CHIP	33k	5%	1/10W
1-216-087-00	s	RES, CHIP	39k	5%	1/10W
1-216-089-00	s	RES, CHIP	47k	5%	1/10W
1-216-091-00	s	RES, CHIP	56k	5%	1/10W
1-216-093-00	s	RES, CHIP	68k	5%	1/10W
1-216-095-00	s	RES, CHIP	82k	5%	1/10W
1-216-097-00	s	RES, CHIP	100k	5%	1/10W
1-216-099-00	s	RES, CHIP	120k	5%	1/10W
1-216-101-00	s	RES, CHIP	150k	5%	1/10W
1-216-103-00	s	RES, CHIP	180k	5%	1/10W
1-216-105-00	s	RES, CHIP	220k	5%	1/10W
1-216-107-00	s	RES, CHIP	270k	5%	1/10W
1-216-109-00	s	RES, CHIP	330k	5%	1/10W
1-216-111-00	s	RES, CHIP	390k	5%	1/10W
1-216-113-00	s	RES, CHIP	470k	5%	1/10W
1-216-115-00	s	RES, CHIP	560k	5%	1/10W
1-216-117-00	s	RES, CHIP	680k	5%	1/10W
1-216-119-00	s	RES, CHIP	820k	5%	1/10W
1-216-121-00	s	RES, CHIP	1.0M	5%	1/10W
1-216-123-00	s	RES, CHIP	1.2M	5%	1/10W
1-216-125-00	s	RES, CHIP	1.5M	5%	1/10W
1-216-127-00	s	RES, CHIP	1.8M	5%	1/10W
1-216-129-00	s	RES, CHIP	2.2M	5%	1/10W
1-216-131-00	s	RES, CHIP	2.7M	5%	1/10W
1-216-133-00	s	RES, CHIP	3.3M	5%	1/10W

Part No. SP Description

RESISTOR, CHIP METAL

1-216-603-11	s	RES, CHIP METAL	10	1%	1/10W
1-216-605-11	s	RES, CHIP METAL	12	1%	1/10W
1-216-609-11	s	RES, CHIP METAL	18	1%	1/10W
1-216-611-11	s	RES, CHIP METAL	22	1%	1/10W
1-216-614-11	s	RES, CHIP METAL	30	1%	1/10W
1-216-617-11	s	RES, CHIP METAL	39	1%	1/10W
1-216-619-11	s	RES, CHIP METAL	47	1%	1/10W
1-216-620-11	s	RES, CHIP METAL	51	1%	1/10W
1-216-623-11	s	RES, CHIP METAL	68	1%	1/10W
1-216-624-11	s	RES, CHIP METAL	75	1%	1/10W
1-216-625-11	s	RES, CHIP METAL	82	1%	1/10W
1-216-626-11	s	RES, CHIP METAL	91	1%	1/10W
1-216-627-11	s	RES, CHIP METAL	100	1%	1/10W
1-216-629-11	s	RES, CHIP METAL	120	1%	1/10W
1-216-631-11	s	RES, CHIP METAL	150	1%	1/10W
1-216-633-11	s	RES, CHIP METAL	180	1%	1/10W
1-216-634-11	s	RES, CHIP METAL	200	1%	1/10W
1-216-635-11	s	RES, CHIP METAL	220	1%	1/10W
1-216-636-11	s	RES, CHIP METAL	240	1%	1/10W
1-216-637-11	s	RES, CHIP METAL	270	1%	1/10W
1-216-638-11	s	RES, CHIP METAL	300	1%	1/10W
1-216-639-11	s	RES, CHIP METAL	330	1%	1/10W
1-216-640-11	s	RES, CHIP METAL	360	1%	1/10W
1-216-641-11	s	RES, CHIP METAL	390	1%	1/10W
1-216-642-11	s	RES, CHIP METAL	430	1%	1/10W
1-216-643-11	s	RES, CHIP METAL	470	1%	1/10W
1-216-644-11	s	RES, CHIP METAL	510	1%	1/10W
1-216-645-11	s	RES, CHIP METAL	560	1%	1/10W
1-216-647-11	s	RES, CHIP METAL	680	1%	1/10W
1-216-648-11	s	RES, CHIP METAL	750	1%	1/10W
1-216-649-11	s	RES, CHIP METAL	820	1%	1/10W
1-216-650-11	s	RES, CHIP METAL	910	1%	1/10W
1-216-651-11	s	RES, CHIP METAL	1.0k	1%	1/10W
1-216-652-11	s	RES, CHIP METAL	1.1k	1%	1/10W
1-216-653-11	s	RES, CHIP METAL	1.2k	1%	1/10W
1-216-655-11	s	RES, CHIP METAL	1.5k	1%	1/10W
1-216-656-11	s	RES, CHIP METAL	1.6k	1%	1/10W
1-216-657-11	s	RES, CHIP METAL	1.8k	1%	1/10W
1-216-658-11	s	RES, CHIP METAL	2k	1%	1/10W
1-216-659-11	s	RES, CHIP METAL	2.2k	1%	1/10W
1-216-660-11	s	RES, CHIP METAL	2.4k	1%	1/10W
1-216-661-11	s	RES, CHIP METAL	2.7k	1%	1/10W
1-216-662-11	s	RES, CHIP METAL	3k	1%	1/10W
1-216-663-11	s	RES, CHIP METAL	3.3k	1%	1/10W
1-216-664-11	s	RES, CHIP METAL	3.5k	1%	1/10W
1-216-665-11	s	RES, CHIP METAL	3.9k	1%	1/10W
1-216-666-11	s	RES, CHIP METAL	4.3k	1%	1/10W
1-216-667-11	s	RES, CHIP METAL	4.7k	1%	1/10W
1-216-668-11	s	RES, CHIP METAL	5.1k	1%	1/10W
1-216-669-11	s	RES, CHIP METAL	5.6k	1%	1/10W

Part No. SP Description

1-216-670-11	s	RES, CHIP METAL	6.2k	1%	1/10W
1-216-671-11	s	RES, CHIP METAL	6.8k	1%	1/10W
1-216-672-11	s	RES, CHIP METAL	7.5k	1%	1/10W
1-216-673-11	s	RES, CHIP METAL	8.2k	1%	1/10W
1-216-674-11	s	RES, CHIP METAL	9.1k	1%	1/10W
1-216-675-11	s	RES, CHIP METAL	10k	1%	1/10W
1-216-676-11	s	RES, CHIP METAL	11k	1%	1/10W
1-216-677-11	s	RES, CHIP METAL	12k	1%	1/10W
1-216-678-11	s	RES, CHIP METAL	13k	1%	1/10W
1-216-679-11	s	RES, CHIP METAL	15k	1%	1/10W
1-216-680-11	s	RES, CHIP METAL	16k	1%	1/10W
1-216-681-11	s	RES, CHIP METAL	18k	1%	1/10W
1-216-682-11	s	RES, CHIP METAL	20k	1%	1/10W
1-216-683-11	s	RES, CHIP METAL	22k	1%	1/10W
1-216-684-11	s	RES, CHIP METAL	24k	1%	1/10W
1-216-685-11	s	RES, CHIP METAL	27k	1%	1/10W
1-216-686-11	s	RES, CHIP METAL	30k	1%	1/10W
1-216-687-11	s	RES, CHIP METAL	33k	1%	1/10W
1-216-688-11	s	RES, CHIP METAL	36k	1%	1/10W
1-216-689-11	s	RES, CHIP METAL	39k	1%	1/10W
1-216-690-11	s	RES, CHIP METAL	43k	1%	1/10W
1-216-691-11	s	RES, CHIP METAL	49k	1%	1/10W
1-216-692-11	s	RES, CHIP METAL	51k	1%	1/10W
1-216-693-11	s	RES, CHIP METAL	56k	1%	1/10W
1-216-694-11	s	RES, CHIP METAL	62k	1%	1/10W
1-216-695-11	s	RES, CHIP METAL	68k	1%	1/10W
1-216-696-11	s	RES, CHIP METAL	75k	1%	1/10W
1-216-697-11	s	RES, CHIP METAL	82k	1%	1/10W
1-216-698-11	s	RES, CHIP METAL	91k	1%	1/10W
1-216-699-11	s	RES, CHIP METAL	100k	1%	1/10W

Part No. SP Description

CONNECTOR

1-564-001-11	o	RECEPTACLE 2P MALE (STRAIGHT TYPE)
1-564-012-11	o	RECEPTACLE 2P MALE (ANGLE TYPE)
1-562-147-11	o	HOUSING 2P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-002-11	o	RECEPTACLE 3P MALE (STRAIGHT TYPE)
1-564-013-11	o	RECEPTACLE 3P MALE (ANGLE TYPE)
1-562-148-11	o	HOUSING 3P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-003-11	o	RECEPTACLE 4P MALE (STRAIGHT TYPE)
1-564-014-11	o	RECEPTACLE 4P MALE (ANGLE TYPE)
1-562-149-11	o	HOUSING 4P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-004-11	o	RECEPTACLE 5P MALE (STRAIGHT TYPE)
1-564-015-11	o	RECEPTACLE 5P MALE (ANGLE TYPE)
1-562-150-11	o	HOUSING 5P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-005-11	o	RECEPTACLE 6P MALE (STRAIGHT TYPE)
1-564-016-11	o	RECEPTACLE 6P MALE (ANGLE TYPE)
1-562-151-11	o	HOUSING 6P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-006-11	o	RECEPTACLE 7P MALE (STRAIGHT TYPE)
1-564-017-11	o	RECEPTACLE 7P MALE (ANGLE TYPE)
1-562-152-11	o	HOUSING 7P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-007-11	o	RECEPTACLE 8P MALE (STRAIGHT TYPE)
1-564-018-11	o	RECEPTACLE 8P MALE (ANGLE TYPE)
1-562-153-11	o	HOUSING 8P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32

Part No. SP Description

1-564-008-41	o	RECEPTACLE 9P MALE (STRAIGHT TYPE)
1-564-019-11	o	RECEPTACLE 9P MALE (ANGLE TYPE)
1-562-154-11	o	HOUSING 9P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-009-11	o	RECEPTACLE 10P MALE (STRAIGHT TYPE)
1-564-020-11	o	RECEPTACLE 10P MALE (ANGLE TYPE)
1-562-155-11	o	HOUSING 10P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-010-21	o	RECEPTACLE 11P MALE (STRAIGHT TYPE)
1-564-021-11	o	RECEPTACLE 11P MALE (ANGLE TYPE)
1-562-156-11	o	HOUSING 11P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-011-11	o	RECEPTACLE 12P MALE (STRAIGHT TYPE)
1-564-022-11	o	RECEPTACLE 12P MALE (ANGLE TYPE)
1-562-157-11	o	HOUSING 12P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-683-11	o	RECEPTACLE 13P MALE (STRAIGHT TYPE)
1-564-743-11	o	RECEPTACLE 13P MALE (ANGLE TYPE)
1-562-627-11	o	HOUSING 13P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-069-11	o	RECEPTACLE 14P MALE (STRAIGHT TYPE)
1-564-630-11	o	RECEPTACLE 14P MALE (ANGLE TYPE)
1-562-185-11	o	HOUSING 14P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-855-11	o	RECEPTACLE 15P MALE (STRAIGHT TYPE)
1-564-877-11	o	RECEPTACLE 15P MALE (ANGLE TYPE)
1-562-958-11	o	HOUSING 15P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32

Part No. SP Description

INDUCTOR, MICRO

1-408-876-00	s	INDUCTOR, MICRO	0.18	5%
1-408-877-00	s	INDUCTOR, MICRO	0.22	5%
1-408-878-00	s	INDUCTOR, MICRO	0.33	5%
1-408-879-21	s	INDUCTOR, MICRO	0.47	5%
1-408-931-00	s	INDUCTOR, MICRO	0.56	5%
1-408-880-00	s	INDUCTOR, MICRO	0.68	5%
1-408-763-00	s	INDUCTOR, MICRO	0.82	5%
1-408-397-00	s	INDUCTOR, MICRO	1.0	5%
1-408-398-00	s	INDUCTOR, MICRO	1.2	5%
1-408-399-00	s	INDUCTOR, MICRO	1.5	5%
1-408-400-00	s	INDUCTOR, MICRO	1.8	5%
1-408-401-00	s	INDUCTOR, MICRO	2.2	5%
1-408-402-00	s	INDUCTOR, MICRO	2.7	5%
1-408-403-00	s	INDUCTOR, MICRO	3.3	5%
1-408-404-00	s	INDUCTOR, MICRO	3.9	5%
1-408-405-00	s	INDUCTOR, MICRO	4.7	5%
1-408-406-00	s	INDUCTOR, MICRO	5.6	5%
1-408-407-00	s	INDUCTOR, MICRO	6.8	5%
1-408-408-00	s	INDUCTOR, MICRO	8.2	5%
1-408-409-00	s	INDUCTOR, MICRO	10	5%
1-408-410-00	s	INDUCTOR, MICRO	12	5%
1-408-411-00	s	INDUCTOR, MICRO	15	5%
1-408-412-00	s	INDUCTOR, MICRO	18	5%
1-408-413-00	s	INDUCTOR, MICRO	22	5%
1-408-414-00	s	INDUCTOR, MICRO	27	5%
1-408-415-00	s	INDUCTOR, MICRO	33	5%
1-408-416-00	s	INDUCTOR, MICRO	39	5%
1-408-417-21	s	INDUCTOR, MICRO	47	5%
1-408-418-00	s	INDUCTOR, MICRO	56	5%
1-408-419-00	s	INDUCTOR, MICRO	68	5%
1-408-420-00	s	INDUCTOR, MICRO	82	5%
1-408-421-00	s	INDUCTOR, MICRO	100	5%
1-408-422-00	s	INDUCTOR, MICRO	120	5%
1-408-423-00	s	INDUCTOR, MICRO	150	5%
1-408-424-00	s	INDUCTOR, MICRO	180	5%
1-408-425-00	s	INDUCTOR, MICRO	220	5%
1-408-426-00	s	INDUCTOR, MICRO	270	5%
1-408-427-00	s	INDUCTOR, MICRO	330	5%
1-408-428-00	s	INDUCTOR, MICRO	390	5%
1-408-429-00	s	INDUCTOR, MICRO	470	5%

Ref.No. Parts No. SP Description

AA-31 BOARD

A-7513-643-A o MOUNTED CIRCUIT BOARD
"AA-31"

C1	1-163-109-00	s CERAMIC CHIP 47PF 5% 50V
C2	1-124-119-11	s ELECT 330 20% 16V
C4	1-124-444-11	s ELECT 220 20% 10V
C5	1-124-284-00	s ELECT 10 20% 16V
C6	1-163-117-00	s CERAMIC CHIP 100PF 5% 50V
C7	1-124-225-11	s ELECT 100 20% 6.3V
C8	1-124-225-11	s ELECT 100 20% 6.3V
C12	1-124-584-00	s ELECT 100 20% 10V
D1	8-719-101-23	s 1SS123
D2	8-719-105-64	s RD4.3M-B2
IC1	8-759-745-64	s NJM4560M: JRC
J1	1-507-883-11	s JACK, SMALL TYPE 4P "INTERCOM"
Q1	8-729-100-66	s 2SC1623
Q2	8-729-100-76	s 2SA812
R5	1-214-565-00	s METAL 2.2K 1% 1/8W
R6	1-214-589-00	s METAL 22K 1% 1/8W
R11	1-249-399-11	s CARBON 33 5% 1/4W
R12	1-249-405-11	s CARBON 100 5% 1/4W
RV1	1-230-523-11	s METAL 10K
RV2	1-237-506-11	s CERMET 100K
T1	1-427-487-11	s OUTPUT
T2	1-427-270-11	s OUTPUT

Ref.No. Parts No. SP Description

AT-46 BOARD

A-7513-658-A o MOUNTED CIRCUIT BOARD
"AT-46"

C18	1-127-506-11	s ELECT(SOLID) 1 20% 16V
C33	1-127-515-11	s ELECT(SOLID) 47 20% 10V
C55	1-127-515-11	s ELECT(SOLID) 47 20% 10V
CN1	1-566-567-11	o RECEPTACLE, 60P MALE
D1	8-719-101-23	s 1SS123
D2	8-719-100-03	s 1S2835
D3	8-719-100-05	s 1S2837
D4	8-719-100-03	s 1S2835
D5	8-719-100-03	s 1S2835
D8	8-719-100-05	s 1S2837
D9	8-719-100-03	s 1S2835
D11	8-719-100-05	s 1S2837
D12	8-719-106-08	s RD6.2M-B2
D13	8-719-100-05	s 1S2837
D15	8-719-100-03	s 1S2835
D20	8-719-100-05	s 1S2837
IC1	8-759-009-07	s MC14053BF: MOTOROLA
IC2	8-759-939-68	s TL062ACPS: TI
IC3	8-759-939-68	s TL062ACPS: TI
IC4	8-759-101-12	s UPC311G2: NEC
IC5	8-759-700-07	s NJM2903M: JRC
IC6	8-759-200-80	s TC4050BF: TOSHIBA
IC7	8-759-200-80	s TC4050BF: TOSHIBA
IC8	8-759-009-07	s MC14053BF: MOTOROLA
IC9	8-759-906-54	s TL064CNS: TOSHIBA
IC10	8-759-700-07	s NJM2903M: JRC
IC11	8-759-009-07	s MC14053BF: MOTOROLA
IC12	8-759-320-61	s HD6305Y0C92P: HITACHI
IC14	8-759-009-10	s MC14069UBF: MOTOROLA
IC16	8-759-918-65	s TL7700CPS: TI
IC17	8-759-400-89	s MN1237AD: MATSUSHITA
IC18	8-759-009-07	s MC14053BF: MOTOROLA
IC19	8-759-906-54	s TL064CNS: TI
IC20	1-808-285-11	s BH1253: SONY
IC21	1-808-285-11	s BH1253: SONY
IC22	1-808-285-11	s BH1253: SONY
IC23	8-752-321-18	s CXK1005P: SONY

Ref.No. Parts No. SP Description

Q1	8-729-100-76	s 2SA812
Q2	8-729-100-76	s 2SA812
Q3	8-729-100-76	s 2SA812
Q4	8-729-100-76	s 2SA812
Q6	8-729-100-66	s 2SC1623
Q7	8-729-100-66	s 2SC1623
Q8	8-729-109-42	s 2SK94-X2
Q9	8-729-109-42	s 2SK94-X2
Q10	8-729-100-66	s 2SC1623
Q11	8-729-100-66	s 2SC1623
Q12	8-729-100-66	s 2SC1623
Q13	8-729-100-66	s 2SC1623
Q14	8-729-100-76	s 2SA812
Q18	8-729-100-66	s 2SC1623
Q19	8-729-100-76	s 2SA812
Q20	8-729-100-66	s 2SC1623
Q21	8-729-109-42	s 2SK94-X2
Q22	8-729-100-66	s 2SC1623
Q23	8-729-100-66	s 2SC1623
Q24	8-729-175-72	s 2SC2757-T33
Q25	8-729-175-72	s 2SC2757-T33
Q26	8-729-100-76	s 2SA812
Q27	8-729-100-66	s 2SC1623
Q28	8-729-100-76	s 2SA812
Q31	8-729-100-66	s 2SC1623
Q32	8-729-100-66	s 2SC1623
Q34	8-729-100-66	s 2SC1623
Q35	8-729-100-66	s 2SC1623
RP1	1-231-387-00	s NETTY
RV1	1-237-504-11	s CERMET 20K
RV2	1-237-501-11	s CERMET 2K
RV3	1-237-501-11	s CERMET 2K
S1	1-571-259-11	s SLIDE
S2	1-571-259-11	s SLIDE
S3	1-571-395-11	s SLIDE
X1	1-567-192-11	s CERAMIC 4MHz

Ref.No. Parts No. SP Description

CN-168 BOARD

A-7513-644-A o MOUNTED CIRCUIT BOARD
"CN-168"

C1	1-126-101-11	s ELECT 100 20% 16V
C4	1-124-255-11	s ELECT 1 20% 50V
C7	1-135-142-21	s CHIP TANTALUM 22 20% 16V
C8	1-135-142-21	s CHIP TANTALUM 22 20% 16V
C9	1-135-142-21	s CHIP TANTALUM 22 20% 16V
		Serial No. 40601 - (EK)
		Serial No. 70011 - (BRZ)
CN2	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN3	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN4	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN5	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN6	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN7	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN8	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN9	1-566-569-11	o RECEPTACLE, 60P FEMALE
CN10	1-560-357-11	o RECEPTACLE, 3P MALE
	1-561-515-00	o PLUG HOUSING 3P
	1-560-372-00	o PLUG CONTACT
CN11	1-560-356-11	o RECEPTACLE, 2P MALE
	1-940-357-11	o 2P PLUG WITH HARNESS
CN13	1-560-357-21	o RECEPTACLE, 3P MALE
	1-561-515-00	o PLUG HOUSING 3P
	1-560-372-00	o PLUG CONTACT
CN14	1-560-358-11	o RECEPTACLE, 4P MALE
	1-561-516-00	o PLUG HOUSING 4P
	1-560-372-00	o PLUG CONTACT
CN22	1-560-619-11	o RECEPTACLE, 7P MALE
	1-561-754-12	o PLUG HOUSING 7P
	1-560-372-00	o PLUG CONTACT
D1	8-719-100-03	s 1S2835
D2	8-719-108-18	s 5P6M
D3	8-719-105-91	s RD5.6M-B2
D4	8-719-100-03	s 1S2835
D5	8-719-100-03	s 1S2835
D6	8-719-105-91	s RD5.6M-B2
D7	8-719-100-03	s 1S2835
IC1	8-759-101-21	s UPC3423C: NEC
L1	1-408-096-00	s MICRO 470
L2	1-408-096-00	s MICRO 470
Q1	8-729-100-76	s 2SA812
Q2	8-729-100-76	s 2SA812
Q3	8-729-100-66	s 2SC1623
Q4	8-729-100-76	s 2SA812
Q5	8-729-109-43	s 2SK94-X3
Q6	8-729-800-36	s 2SD1048
Q7	8-729-800-68	s 2SB815

Ref.No. Parts No. SP Description

DR-60 BOARD

(Serial No. 40001-44060 (EK)
70001-70050 (BRZ))

A-7513-650-A o MOUNTED CIRCUIT BOARD
"DR-60"

C3 1-163-123-00 s CERAMIC CHIP 180PF 5% 50V
C6 1-127-516-11 s ELECT(SOLID) 220 20% 10V
C48 1-124-477-11 s ELECT 47 20% 25V
C50 1-124-667-11 s ELECT 10 20% 100V
C56 1-127-516-11 s ELECT(SOLID) 220 20% 10V
C63 1-127-496-00 s ELECT 6.8 20% 16V

D1 8-719-100-03 s 1S2835
D2 8-719-100-03 s 1S2835
D3 8-719-100-03 s 1S2835
D4 8-719-100-03 s 1S2835
D5 8-719-100-03 s 1S2835

D6 8-719-100-05 s 1S2837
D7 8-719-100-05 s 1S2837
D8 8-719-100-05 s 1S2837
D9 8-719-100-05 s 1S2837
D10 8-719-101-23 s 1SS123

D11 8-719-100-03 s 1S2835
D12 8-719-100-03 s 1S2835
D13 8-719-100-03 s 1S2835
D14 8-719-100-03 s 1S2835
D15 8-719-100-05 s 1S2837

D16 8-719-100-05 s 1S2837
D17 8-719-100-03 s 1S2835
D18 8-719-100-03 s 1S2835
D19 8-719-100-05 s 1S2837
D20 8-719-100-05 s 1S2837

D21 8-719-100-05 s 1S2837
D22 8-719-100-05 s 1S2837
D23 8-719-100-05 s 1S2837

IC1 8-759-013-02 s CXB0026AM: SONY
IC2 8-759-013-02 s CXB0026AM: SONY
IC3 8-759-013-02 s CXB0026AM: SONY
IC4 8-752-031-03 s CXA1065M: SONY
IC5 8-752-031-03 s CXA1065M: SONY
IC6 8-752-031-03 s CXA1065M: SONY

Q1 8-729-100-66 s 2SC1623
Q3 8-729-112-65 s 2SA1462
Q4 8-729-112-65 s 2SA1462
Q6 8-729-100-66 s 2SC1623
Q7 8-729-100-76 s 2SA812

Q8 8-729-100-66 s 2SC1623
Q13 8-729-100-66 s 2SC1623
Q14 8-729-100-66 s 2SC1623
Q15 8-729-100-66 s 2SC1623
Q16 8-729-100-66 s 2SC1623

Ref.No. Parts No. SP Description

Q17 8-729-100-66 s 2SC1623
Q18 8-729-100-66 s 2SC1623
Q19 8-729-100-66 s 2SC1623
Q20 8-729-100-66 s 2SC1623
Q21 8-729-100-66 s 2SC1623

RV1 1-230-524-11 s METAL 22K
RV3 1-230-524-11 s METAL 22K
RV5 1-230-524-11 s METAL 22K

DR-60A BOARD

(Serial No. 44061- (EK)
70051- (BRZ))

A-7515-111-A o MOUNTED CIRCUIT BOARD
"DR-60A"

C2 1-163-235-11 s CERAMIC CHIP 22PF 5% 50V
C3 1-163-123-00 s CERAMIC CHIP 180PF 5% 50V
C6 1-127-516-11 s ELECT(SOLID) 220 20% 10V
C25 1-131-480-00 s TANTALUM 68 20% 16V
C48 1-124-477-11 s ELECT 47 20% 25V

C50 1-124-667-11 s ELECT 10 20% 100V
C56 1-127-516-11 s ELECT(SOLID) 220 20% 10V
C63 1-127-496-00 s ELECT 6.8 20% 16V

D1 8-719-118-00 s RD39ESB2
D2 8-719-118-00 s RD39ESB2
D3 8-719-118-00 s RD39ESB2
D4 8-719-118-00 s RD39ESB2
D5 8-719-118-00 s RD39ESB2

D6 8-719-400-18 s MA152WK
D7 8-719-400-18 s MA152WK
D8 8-719-400-18 s MA152WK
D9 8-719-400-18 s MA152WK
D10 8-719-800-76 s 1SS226

D11 8-719-110-88 s RD39ESB2
D12 8-719-110-88 s RD39ESB2
D13 8-719-110-88 s RD39ESB2
D14 8-719-110-88 s RD39ESB2
D15 8-719-400-18 s MA152WK

D16 8-719-400-18 s MA152WK
D17 8-719-110-88 s RD39ESB2
D18 8-719-110-88 s RD39ESB2
D19 8-719-400-18 s MA152WK
D20 8-719-400-18 s MA152WK

D21 8-719-400-18 s MA152WK
D22 8-719-400-18 s MA152WK
D23 8-719-400-18 s MA152WK

Ref.No.	Parts No.	SP Description
IC1	8-759-013-02	s CXB0026AM: SONY
IC2	8-759-013-02	s CXB0026AM: SONY
IC3	8-759-013-02	s CXB0026AM: SONY
IC4	8-752-031-03	s CXA1065M: SONY
IC5	8-752-031-03	s CXA1065M: SONY
IC6	8-752-031-03	s CXA1065M: SONY
Q1	8-729-100-66	s 2SC1623
Q2	8-729-101-00	s NTM2369
Q3	8-729-112-65	s 2SA1462
Q4	8-729-112-65	s 2SA1462
Q5	8-729-101-00	s NTM2369
Q6	8-729-100-66	s 2SC1623
Q7	8-729-216-22	s 2SA1162-G
Q8	8-729-100-66	s 2SC1623
Q13	8-729-100-66	s 2SC1623
Q14	8-729-100-66	s 2SC1623
Q15	8-729-100-66	s 2SC1623
Q16	8-729-100-66	s 2SC1623
Q17	8-729-100-66	s 2SC1623
Q18	8-729-100-66	s 2SC1623
Q19	8-729-100-66	s 2SC1623
Q20	8-729-100-66	s 2SC1623
Q21	8-729-100-66	s 2SC1623
RV1	1-230-524-11	s METAL 22K
RV3	1-230-524-11	s METAL 22K
RV5	1-230-524-11	s METAL 22K

EN-53 BOARD

A-7513-868-A	o MOUNTED CIRCUIT BOARD "EN-53" (EK)
A-7513-871-A	o MOUNTED CIRCUIT BOARD "EN-53" (BRZ)
BPF1	1-235-161-00 s BAND PASS FILTER 3.58MHz (BRZ)
BFP1	1-235-181-00 s BAND PASS FILTER MHz (EK)
C4	1-163-135-00 s CERAMIC CHIP 560PF 5% 50V
C17	1-163-114-00 s CERAMIC CHIP 75PF 5% 50V
C36	1-163-114-00 s CERAMIC CHIP 75PF 5% 50V (EK)
C36	1-163-116-00 s CERAMIC CHIP 91PF 5% 50V (BRZ)
C37	1-163-114-00 s CERAMIC CHIP 75PF 5% 50V (EK)

Ref.No.	Parts No.	SP Description
C37	1-163-116-00	s CERAMIC CHIP 91PF 5% 50V (BRZ)
C38	1-126-157-11	s ELECT 10MF 20% 16V (EK)
C42	1-107-048-00	s MICA 6.8PF ±0.5PF 500V
C45	1-163-093-00	s CERAMIC CHIP 10PF 5% 50V
C49	1-163-090-00	s CERAMIC CHIP 7PF ±0.25PF 50V
C50	1-163-092-00	s CERAMIC CHIP 9PF ±0.25PF 50V
C64	1-163-086-00	s CERAMIC CHIP 3PF ±0.25PF 50V
C68	1-124-589-11	s ELECT 47 20% 10V
CN1	1-566-567-11	o RECEPTACLE, 60P MALE
D1	8-719-101-23	s 1SS123
D2	8-719-101-23	s 1SS123
D3	8-719-101-23	s 1SS123
DL1	1-415-290-11	s 0.41uS ±10nS
DL2	1-415-304-21	s
IC1	8-759-911-77	s CX7968A: SONY
IC2	8-759-201-61	s TC40H004F: TOSHIBA
IC3	8-759-906-59	s CX22017: SONY
IC4	8-741-105-50	s BX1055: SONY
IC5	8-759-933-79	s UA711CNS: NEC
IC6	1-808-338-11	s VIDEO AMP /750HM DRIVER UNIT
IC7	8-759-925-74	s SN74HC04NS: TI
L2	1-408-427-00	s MICRO 330
L8	1-408-427-00	s MICRO 330
LV1	1-408-845-11	s 100 (EK)
LV1	1-408-844-11	s 22 (BRZ)
LV2	1-407-926-11	s COIL 22
Q1	8-729-100-66	s 2SC1623
Q2	8-729-175-72	s 2SC2757-T33
Q3	8-729-122-63	s 2SA1226
Q4	8-729-175-72	s 2SC2757-T33
Q5	8-729-175-72	s 2SC2757-T33
Q6	8-729-175-72	s 2SC2757-T33
Q7	8-729-175-72	s 2SC2757-T33
Q8	8-729-100-76	s 2SA812
Q9	8-729-122-63	s 2SA1226
Q10	8-729-122-63	s 2SA1226

Ref.No. Parts No. SP Description

Q11 8-729-175-72 s 2SC2757-T33
Q12 8-729-175-72 s 2SC2757-T33
Q13 8-729-175-72 s 2SC2757-T33
Q14 8-729-122-63 s 2SA1226
Q15 8-729-122-63 s 2SA1226

Q16 8-729-100-66 s 2SC1623
Q17 8-729-100-66 s 2SC1623
Q18 8-729-100-66 s 2SC1623
Q19 8-729-100-66 s 2SC1623
Q20 8-729-100-76 s 2SA812

Q21 8-729-100-66 s 2SC1623
Q22 8-729-100-66 s 2SC1623
Q23 8-729-100-76 s 2SA812
Q24 8-729-100-76 s 2SA812
Q25 8-729-100-76 s 2SA812

Q26 8-729-100-66 s 2SC1623
Q27 8-729-100-76 s 2SA812
Q28 8-729-100-76 s 2SA812
Q29 8-729-100-66 s 2SC1623
Q30 8-729-100-66 s 2SC1623

Q31 8-729-100-76 s 2SA812
Q32 8-729-100-76 s 2SA812
Q33 8-729-175-72 s 2SC2757-T33
Q34 8-729-175-72 s 2SC2757-T33
Q35 8-729-100-76 s 2SA812

Q36 8-729-100-66 s 2SC1623
Q37 8-729-100-76 s 2SA812
Q38 8-729-100-76 s 2SA812
Q39 8-729-100-66 s 2SC1623
Q40 8-729-100-76 s 2SA812

R10 1-218-257-11 s METAL CHIP 4.99K 0.5% 1/10W
R11 1-218-254-11 s METAL CHIP 2.55K 0.5% 1/10W
R14 1-218-256-11 s METAL CHIP 3.32K 0.5% 1/10W
R15 1-218-252-11 s METAL CHIP 2.26K 0.5% 1/4W
R16 1-218-259-11 s METAL CHIP 13.7K 0.5% 1/10W

R17 1-218-254-11 s METAL CHIP 2.55K 0.5% 1/10W
R96 1-218-259-11 s METAL CHIP 13.7K 0.5% 1/10W
R97 1-218-254-11 s METAL CHIP 2.55K 0.5% 1/10W
R98 1-218-257-11 s METAL CHIP 4.99K 0.5% 1/10W
R139 1-216-060-00 s METAL 3K 5% 1/10W

RV1 1-230-524-11 s METAL 22K
RV2 1-230-524-11 s METAL 22K
RV3 1-230-522-11 s METAL 4.7K
RV4 1-230-521-11 s METAL 2.2K
RV5 1-230-519-11 s METAL 470

RV6 1-237-505-21 s CERMET 50K
RV7 1-237-505-21 s CERMET 50K
RV8 1-230-521-11 s METAL 2.2K
RV9 1-230-523-11 s METAL 10K
RV10 1-230-521-11 s METAL 2.2K

RV11 1-230-521-11 s METAL 2.2K
RV12 1-230-521-11 s METAL 2.2K
RV13 1-230-526-11 s METAL 47K (BRZ)
RV14 1-230-523-11 s METAL 10K
RV15 1-230-519-11 s METAL 470

RV16 1-230-520-11 s METAL 1K
RV17 1-237-505-11 s CERMET 50K

Ref.No. Parts No. SP Description

S1 1-571-098-11 s SLIDE
S2 1-571-395-11 s SLIDE
S3 1-570-857-11 s SLIDE
S5 1-570-857-11 s SLIDE
S6 1-570-857-11 s SLIDE

IE-16 BOARD

A-7513-654-B o MOUNTED CIRCUIT BOARD
"IE-16" (BRZ)
A-7513-867-A o MOUNTED CIRCUIT BOARD
"IE-16" (EK)

C17 1-126-157-11 s ELECT 10 20% 10V (EK)
C25 1-107-208-11 s MICA 18PF 5% 500V (BRZ)
C34 1-126-157-11 s ELECT 10 20% 10V (EK)
C44 1-107-208-11 s MICA 18PF 5% 500V (BRZ)
C47 1-124-270-11 s ELECT 0.47 20% 50V (BRZ)

C48 1-124-499-11 s ELECT 1 20% 50V (BRZ)
C49 1-126-157-11 s ELECT 10 20% 10V (EK)
C52 1-126-157-11 s ELECT 10 20% 10V (EK)
C60 1-126-157-11 s ELECT 10 20% 10V (EK)
C66 1-124-270-11 s ELECT 0.47 20% 50V (BRZ)

C67 1-124-499-11 s ELECT 1 20% 50V (BRZ)
C80 1-107-085-11 s MICA 100PF 5% 50V (BRZ)
C87 1-124-589-11 s ELECT 47V 20% 10V (EK)
C89 1-124-589-11 s ELECT 47 20% 10V (EK)
C90 1-163-086-00 s CERAMIC CHIP 3PF
±0.25PF 50V

C92 1-124-589-11 s ELECT 47 20% 10V (EK)
C98 1-124-589-11 s ELECT 47 20% 10V (EK)
C98 1-124-893-11 s ELECT 2200 20% 6.3V (BRZ)
C107 1-161-894-00 s CERAMIC 0.1 50V
C109 1-161-894-00 s CERAMIC 0.1 50V

C201 1-135-096-21 s CHIP TANTALUM 4.7 10% 10V
C202 1-135-096-21 s CHIP TANTALUM 4.7 10% 10V

CN1 1-566-567-11 o RECEPTACLE, 60P MALE

CV1 1-141-301-11 s CERAMIC 35PF
CV2 1-141-291-11 s CERAMIC 20PF
CV3 1-141-291-11 s CERAMIC 20PF

D1 8-719-101-23 s 1SS123
D2 8-719-101-23 s 1SS123
D3 8-719-101-23 s 1SS123

DL1 1-415-591-21 s 63.532uS ±10nS, (EK)
DL1 1-415-580-21 s 63.552uS ±20nS (BRZ)

DL2 1-415-576-11 s 110nS ±5nS
DL3 1-415-434-11 s 50nS ±2nS

Ref.No. Parts No. SP Description

IC1 8-759-700-95 s NJM1496M: JRC
 IC4 8-758-150-00 s CX815: SONY
 IC5 8-759-700-95 s NJM1496M: JRC
 IC6 8-759-009-07 s MC14053BF: MOTOROLA
 IC7 8-759-009-07 s MC14053BF: MOTOROLA
 IC8 8-759-008-86 s MC14017BF: MOTOROLA
 IC9 8-759-009-19 s MC14081BF: MOTOROLA
 IC10 8-759-939-68 s TLO62ACPS: TI
 IC11 8-759-009-07 s MC14053BF: MOTOROLA
 IC12 8-759-939-68 s TLO62ACPS: TI

Q1 8-729-100-66 s 2SC1623
 Q2 8-729-100-66 s 2SC1623
 Q3 8-729-175-73 s 2SC2757
 Q4 8-729-175-73 s 2SC2757
 Q5 8-729-175-73 s 2SC2757

Q6 8-729-122-63 s 2SA1226
 Q7 8-729-175-73 s 2SC2757
 Q8 8-729-122-63 s 2SA1226
 Q9 8-729-175-73 s 2SC2757
 Q10 8-729-175-73 s 2SC2757

Q11 8-729-109-43 s 2SK94-X3
 Q12 8-729-175-73 s 2SC2757
 Q13 8-729-175-73 s 2SC2757
 Q14 8-729-122-63 s 2SA1226
 Q15 8-729-122-63 s 2SA1226

Q16 8-729-122-63 s 2SA1226
 Q17 8-729-175-73 s 2SC2757
 Q18 8-729-175-73 s 2SC2757
 Q19 8-729-100-66 s 2SC1623
 Q20 8-729-100-76 s 2SA812

Q21 8-729-175-73 s 2SC2757
 Q22 8-729-175-73 s 2SC2757
 Q23 8-729-122-63 s 2SA1226
 Q24 8-729-175-73 s 2SC2757
 Q25 8-729-122-63 s 2SA1226

Q26 8-729-175-73 s 2SC2757
 Q27 8-729-175-73 s 2SC2757
 Q28 8-729-109-43 s 2SK94-X3
 Q29 8-729-175-73 s 2SC2757
 Q30 8-729-175-73 s 2SC2757

Q31 8-729-122-63 s 2SA1226
 Q32 8-729-122-63 s 2SA1226
 Q33 8-729-175-73 s 2SC2757
 Q34 8-729-175-73 s 2SC2757
 Q35 8-729-100-66 s 2SC1623

Q36 8-729-100-66 s 2SC1623
 Q37 8-729-109-43 s 2SK94-X3
 Q38 8-729-109-43 s 2SK94-X3
 Q39 8-729-100-66 s 2SC1623
 Q40 8-729-100-66 s 2SC1623

Q41 8-729-100-66 s 2SC1623
 Q42 8-729-100-66 s 2SC1623
 Q43 8-729-100-66 s 2SC1623
 Q44 8-729-100-66 s 2SC1623
 Q45 8-729-100-66 s 2SC1623

Ref.No. Parts No. SP Description

Q47 8-729-100-76 s 2SA812
 Q48 8-729-175-73 s 2SC2757
 Q49 8-729-175-73 s 2SC2757
 Q50 8-729-122-63 s 2SA1226
 Q51 8-729-122-63 s 2SA1226

Q52 8-729-175-73 s 2SC2757
 Q53 8-729-175-73 s 2SC2757
 Q54 8-729-175-73 s 2SC2757
 Q55 8-729-175-73 s 2SC2757
 Q56 8-729-100-76 s 2SA812

Q57 8-729-100-76 s 2SA812
 Q58 8-729-100-66 s 2SC1623
 Q59 8-729-100-66 s 2SC1623
 Q60 8-729-122-63 s 2SA1226
 Q61 8-729-175-73 s 2SC2757

Q62 8-729-175-73 s 2SC2757
 Q63 8-729-175-73 s 2SC2757
 Q64 8-729-175-73 s 2SC2757
 Q65 8-729-175-73 s 2SC2757
 Q66 8-729-100-66 s 2SC1623

Q67 8-729-100-76 s 2SA812
 Q68 8-729-100-66 s 2SC1623
 Q70 8-729-109-43 s 2SK94-X3
 Q71 8-729-109-43 s 2SK94-X3
 Q72 8-729-109-43 s 2SK94-X3
 Q73 8-719-100-67 s 2SC1623

R13 1-215-441-00 s METAL 6.8K 1% 1/6W (BRZ)
 R38 1-215-417-00 s METAL 680 1% 1/6W (BRZ)
 R39 1-215-394-00 s METAL 75 1% 1/6W (BRZ)
 R42 1-215-401-00 s METAL 150 1% 1/6W (BRZ)

R43 1-215-429-00 s METAL 2.2K 1% 1/6W (BRZ)
 R70 1-215-389-00 s METAL 47 1% 1/6W (BRZ)
 R71 1-215-417-00 s METAL 680 1% 1/6W (BRZ)

RV1 1-237-501-11 s CERMET 2K
 RV2 1-230-522-11 s METAL 4.7K
 RV3 1-237-502-21 s CERMET 5K
 RV5 1-230-521-11 s METAL 2.2K
 RV6 1-230-519-11 s METAL 470

RV7 1-230-526-11 s METAL 47K
 RV8 1-230-526-11 s METAL 47K

S1 1-571-259-11 s SLIDE

Ref.No. Parts No. SP Description

IF-142 BOARD

A-7513-870-A o MOUNTED CIRCUIT BOARD
"IF-142" (EK)
A-7513-873-A o MOUNTED CIRCUIT BOARD
"IF-142" (BRZ)

C1 1-126-157-11 s ELECT 10 20% 16V
C19 1-124-246-11 s ELECT 6.8 20% 35V
C22 1-124-589-11 s ELECT 47 20% 16V (EK)
C30 1-124-284-00 s ELECT 10 20% 16V
C49 1-124-284-00 s ELECT 10 20% 16V
C54 1-124-589-11 s ELECT 47 20% 16V (EK)
C61 1-124-284-00 s ELECT 10 20% 16V
C71 1-124-229-00 s ELECT 33 20% 10V

CN1 1-566-567-11 o RECEPTACLE, 60P MALE

D1 8-719-101-23 s 1SS123
D2 8-719-106-44 s RD9.1MB2
D3 8-719-100-05 s 1S2837
D4 8-719-106-71 s RD12M-B2
D5 8-719-101-23 s 1SS123
D6 8-719-100-03 s 1S2835
D7 8-719-100-03 s 1S2835
D8 8-719-100-03 s 1S2835
D9 8-719-100-03 s 1S2835
D10 8-719-100-03 s 1S2835
D11 8-719-101-23 s 1SS123
D12 8-719-100-03 s 1S2835
D13 8-719-101-23 s 1SS123
D14 8-719-100-03 s 1S2835
D15 8-719-101-23 s 1SS123
D16 8-719-100-03 s 1S2835
D17 8-719-106-08 s RD6.2M-B2
D18 8-719-100-05 s 1S2837
D19 8-719-100-05 s 1S2837
D20 8-719-100-05 s 1S2837

D21 8-719-101-23 s 1SS123
D23 8-719-100-03 s 1S2835
D26 8-719-100-03 s 1S2835
D29 8-719-100-03 s 1S2835

IC1 8-759-100-96 s UPC4558G2: NEC
IC2 8-759-009-07 s MC14053BF: MOTOROLA
IC3 8-759-700-07 s NJM2903M: JRC
IC5 8-759-605-18 s CX518: SONY
IC6 8-759-100-96 s UPC4558G2: NEC

IC7 8-759-009-06 s MC14052BF: MOTOROLA
IC8 8-759-925-72 s SN74HC02NS: TI
IC9 8-759-009-10 s MC14069UBF: MOTOROLA
IC10 8-759-008-96 s MC14029BF: MOTOROLA
IC11 8-759-008-99 s MC14042BF: MOTOROLA

Ref.No. Parts No. SP Description

IC12 8-759-008-96 s MC14029BF: MOTOROLA
IC13 8-759-008-99 s MC14042BF: MOTOROLA
IC14 8-759-009-06 s MC14052BF: MOTOROLA
IC15 8-759-009-12 s MC14071BF: MOTOROLA
IC16 8-759-925-76 s SN74HC08NS: TI
IC17 8-759-925-76 s SN74HC08NS: TI
IC18 8-759-009-07 s MC14053BF: MOTOROLA
IC19 8-759-009-06 s MC14052BF: MOTOROLA

Q1 8-729-175-72 s 2SC2757-T33
Q2 8-729-175-72 s 2SC2757-T33
Q3 8-729-175-72 s 2SC2757-T33
Q4 8-729-100-66 s 2SC1623
Q5 8-729-109-43 s 2SK94-X3
Q6 8-729-100-66 s 2SC1623
Q8 8-729-100-66 s 2SC1623
Q9 8-729-175-72 s 2SC2757-T33
Q10 8-729-175-72 s 2SC2757-T33
Q11 8-729-175-72 s 2SC2757-T33

Q12 8-729-100-66 s 2SC1623
Q13 8-729-109-43 s 2SK94-X3
Q14 8-729-100-66 s 2SC1623
Q15 8-729-100-66 s 2SC1623
Q16 8-729-100-66 s 2SC1623

Q17 8-729-100-66 s 2SC1623
Q18 8-729-100-76 s 2SA812
Q19 8-729-100-66 s 2SC1623
Q20 8-729-100-76 s 2SA812
Q21 8-729-100-76 s 2SA812

Q22 8-729-100-66 s 2SC1623
Q23 8-729-122-63 s 2SA1226
Q24 8-729-122-63 s 2SA1226
Q25 8-729-122-63 s 2SA1226
Q26 8-729-122-63 s 2SA1226

Q27 8-729-122-63 s 2SA1226
Q28 8-729-122-63 s 2SA1226
Q29 8-729-122-63 s 2SA1226
Q30 8-729-122-63 s 2SA1226
Q31 8-729-122-63 s 2SA1226

Q32 8-729-122-63 s 2SA1226
Q33 8-729-122-63 s 2SA1226
Q34 8-729-122-63 s 2SA1226
Q35 8-729-100-66 s 2SC1623
Q36 8-729-100-66 s 2SC1623

Q37 8-729-100-76 s 2SA812
Q38 8-729-100-66 s 2SC1623
Q39 8-729-100-76 s 2SA812
Q40 8-729-100-76 s 2SA812
Q41 8-729-100-76 s 2SA812

Q42 8-729-122-63 s 2SA1226
Q43 8-729-122-63 s 2SA1226
Q44 8-729-122-63 s 2SA1226
Q45 8-729-100-66 s 2SC1623
Q46 8-729-100-66 s 2SC1623

Ref.No.	Parts No.	SP Description
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Q47	8-729-100-76	s 2SA812
Q48	8-729-100-76	s 2SA812
Q49	8-729-100-66	s 2SC1623
Q50	8-729-122-63	s 2SA1226
Q51	8-729-122-63	s 2SA1226
Q52	8-729-122-63	s 2SA1226
Q53	8-729-100-76	s 2SA812
Q54	8-729-100-66	s 2SC1623
Q55	8-729-100-66	s 2SC1623
Q56	8-729-100-76	s 2SA812
Q57	8-729-100-66	s 2SC1623
Q58	8-729-100-76	s 2SA812
Q59	8-729-100-76	s 2SA812
Q60	8-729-100-76	s 2SA812
Q61	8-729-100-76	s 2SA812
Q62	8-729-100-66	s 2SC1623
Q63	8-729-122-63	s 2SA1226
Q64	8-729-100-76	s 2SA812
Q65	8-729-122-63	s 2SA1226
Q66	8-729-100-76	s 2SA812
Q67	8-729-100-66	s 2SC1623
Q68	8-729-122-63	s 2SA1226
Q69	8-729-100-76	s 2SA812
Q70	8-729-100-76	s 2SA812
Q71	8-729-100-66	s 2SC1623
Q72	8-729-100-76	s 2SA812
Q73	8-729-175-72	s 2SC2757-T33
Q74	8-729-100-66	s 2SC1623
Q75	8-729-100-76	s 2SA812
Q76	8-729-100-76	s 2SA812
Q77	8-729-100-66	s 2SC1623
Q78	8-729-100-66	s 2SC1623
Q79	8-729-100-76	s 2SA812
Q80	8-729-100-66	s 2SC1623
Q81	8-729-100-76	s 2SA812
Q82	8-729-100-76	s 2SA812
Q83	8-729-100-76	s 2SA812
Q84	8-729-100-66	s 2SC1623
Q85	8-729-201-04	s 2SC2878
Q86	8-729-100-66	s 2SC1623

R129	1-216-100-00	s RES,CHIP 130K 5% 1/10W
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RV1	1-230-520-11	s METAL 1K
RV4	1-230-526-11	s METAL 47K
RV5	1-230-526-11	s METAL 47K (BRZ)
RV6	1-230-523-11	s METAL 10K
RV9	1-230-519-11	s METAL 470
RV10	1-230-519-11	s METAL 470
RV13	1-230-520-11	s METAL 1K (EK)
RV13	1-230-521-11	s METAL 2.2K (BRZ)
RV14	1-230-520-11	s METAL 1K (EK)
RV14	1-230-521-11	s METAL 2.2K (BRZ)

S1	1-571-395-11	s SLIDE
S2	1-571-394-11	s SLIDE

Ref.No.	Parts No.	SP Description
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MA-32 BOARD

A-7513-645-A	o MOUNTED CIRCUIT BOARD	"MA-32"
	Serial No. 40001 - 41290	(
	Serial No. 70001 - 70010	(
A-7513-645-B	o MOUNTED CIRCUIT BOARD	"MA-32"
	Serial No. 41291 -	(
	Serial No. 70011 -	(

C2	1-123-372-11	s ELECT 33 20% 63V
C3	1-124-499-11	s ELECT 1 20% 100V
		Serial No. 40001 - 41290 (EK)
		Serial No. 70001 - 70010 (BRZ)
	1-124-464-11	s ELECT 0.22 20% 50V
		Serial No. 41291-44060 (EK)
		Serial No. 70011-70050 (BRZ)
	1-130-499-00	s MYLAR 0.22 5% 50V
		Serial No. 44061- (EK)
		Serial No. 70051- (BRZ)
C5	1-124-499-11	s ELECT 1 20% 100V
		Serial No. 40001-41290 (EK)
		Serial No. 70001-70010 (BRZ)
	1-124-464-11	s ELECT 0.22 20% 50V
		Serial No. 41291-44060 (EK)
		Serial No. 70011-70050 (BRZ)
	1-130-499-00	s MYLAR 0.22 5% 50V
		Serial No. 44061- (EK)
		Serial No. 70051- (BRZ)
C8	1-124-120-11	s ELECT 220 20% 16V
CP1	1-464-758-11	s CONVERTER, DC-DC
D1	8-719-101-23	s 1SS123
D2	8-719-101-23	s 1SS123
IC1	8-759-700-09	s NJM2043M-D: JRC
IC2	8-759-009-07	s MC14053BF: MOTOROLA

L1	1-408-425-00	s MICRO 220
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Q1	8-729-100-76	s 2SA812
Q2	8-729-109-43	s 2SK94-X3
Q3	8-729-109-43	s 2SK94-X3
Q4	8-729-100-76	s 2SA812
Q5	8-729-100-66	s 2SC1623
		Serial No. 41291 -
		Serial No. 70011 -
Q6	8-729-100-66	s 2SC1623
		Serial No. 41291 -
		Serial No. 70011 -

Ref.No.	Parts No.	SP Description	Ref.No.	Parts No.	SP Description
R4	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W Serial No. 44061- (EK) Serial No. 70051- (BRZ)	IC1	1-808-282-11	s (BUFFER AMPLIFIER UNIT)
R6	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W Serial No. 44061- (EK) Serial No. 70051- (BRZ)	IC2	8-759-700-95	s NJM1496M: JRC
			IC3	1-808-283-11	s (GAMMA AMPLIFIER UNIT)
			IC4	8-759-700-95	s NJM1496M: JRC
			IC5	1-808-284-11	s (KNEE AMPLIFIER UNIT)
			IC6	8-759-700-95	s NJM1496M: JRC
			IC7	8-759-906-54	s TL064CNS: TI
			IC8	8-759-009-07	s MC14053BF: MOTOROLA
			IC9	8-759-204-51	s TC40H008F: TOSHIBA
T1	1-427-515-11	s OUTPUT Serial No. 40001 - 41290 (EK) Serial No. 70001 - 70010 (BRZ)	IC10	1-808-282-11	s (BUFFER AMPLIFIER UNIT)
	1-427-487-00	s OUTPUT Serial No. 41291 - (EK) Serial No. 70011 - (BRZ)	IC11	1-808-283-11	s (GAMMA AMPLIFIER UNIT)
			IC12	1-808-284-11	s (KNEE AMPLIFIER UNIT)
			IC13	1-808-282-11	s (BUFFER AMPLIFIER UNIT)
			IC14	1-808-283-11	s (GAMMA AMPLIFIER UNIT)
			IC15	1-808-284-11	s (KNEE AMPLIFIER UNIT)

PR-90P BOARD

A-7513-885-A o MOUNTED CIRCUIT BOARD "PR-90P"			Q1	8-729-100-66	s 2SC1623
			Q8	8-729-100-76	s 2SA812
			Q9	8-729-100-66	s 2SC1623
			Q12	8-729-109-43	s 2SK94-X3
			Q13	8-729-109-43	s 2SK94-X3
			Q14	8-729-109-43	s 2SK94-X3
			Q15	8-729-175-73	s 2SC2757
C6	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q27	8-729-100-66	s 2SC1623
C11	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q29	8-729-100-76	s 2SA812
C39	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q30	8-729-100-76	s 2SA812
C44	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q31	8-729-100-66	s 2SC1623
C72	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q32	8-729-100-66	s 2SC1623
C77	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q33	8-729-100-66	s 2SC1623
C125	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V	Q40	8-729-100-76	s 2SA812
C126	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V	Q41	8-729-100-66	s 2SC1623
C127	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V	Q44	8-729-109-43	s 2SK94-X3
			Q45	8-729-109-43	s 2SK94-X3
			Q46	8-729-109-43	s 2SK94-X3
			Q47	8-729-175-73	s 2SC2757
			Q59	8-729-100-66	s 2SC1623
			Q61	8-729-100-76	s 2SA812
			Q62	8-729-100-76	s 2SA812
			Q63	8-729-100-66	s 2SC1623
			Q64	8-729-100-66	s 2SC1623
			Q65	8-729-100-66	s 2SC1623
			Q72	8-729-100-76	s 2SA812
			Q73	8-729-100-66	s 2SC1623
			Q76	8-729-109-43	s 2SK94-X3
			Q77	8-729-109-43	s 2SK94-X3
			Q78	8-729-109-43	s 2SK94-X3
			Q79	8-729-175-73	s 2SC2757
			Q91	8-729-100-66	s 2SC1623
			Q93	8-729-100-76	s 2SA812
			Q94	8-729-100-76	s 2SA812
			Q95	8-729-100-66	s 2SC1623
			Q96	8-729-100-66	s 2SC1623
			Q97	8-729-100-66	s 2SC1623
			Q98	8-729-100-66	s 2SC1623

Ref.No. Parts No. SP Description

R64 1-216-646-11 s METAL CHIP 620 0.5% 1/10W
R145 1-216-646-11 s METAL CHIP 620 0.5% 1/10W
R225 1-216-646-11 s METAL CHIP 620 0.5% 1/10W

RV1 1-228-892-00 s METAL 22K
RV2 1-228-892-00 s METAL 22K
RV3 1-228-892-00 s METAL 22K
RV4 1-228-892-00 s METAL 22K
RV5 1-228-892-00 s METAL 22K

RV6 1-228-892-00 s METAL 22K
RV7 1-230-522-11 s METAL 4.7K
RV8 1-230-522-11 s METAL 4.7K
RV9 1-230-519-11 s METAL 470
RV10 1-230-520-11 s METAL 1K

RV11 1-230-519-11 s METAL 470
RV12 1-230-519-11 s METAL 470
RV13 1-230-521-11 s METAL 2.2K
RV14 1-230-522-11 s METAL 4.7K
RV15 1-230-522-11 s METAL 4.7K

RV16 1-230-519-11 s METAL 470
RV17 1-230-520-11 s METAL 1K
RV18 1-230-519-11 s METAL 470
RV19 1-230-519-11 s METAL 470
RV20 1-230-521-11 s METAL 2.2K

RV21 1-230-522-11 s METAL 4.7K
RV22 1-230-522-11 s METAL 4.7K
RV23 1-230-519-11 s METAL 470
RV24 1-230-520-11 s METAL 1K
RV25 1-230-519-11 s METAL 470

RV26 1-230-519-11 s METAL 470
RV27 1-230-521-11 s METAL 2.2K
RV28 1-230-520-11 s METAL 1K
RV29 1-230-520-11 s METAL 1K
RV30 1-230-520-11 s METAL 1K

S1 1-571-259-11 s SLIDE
S2 1-571-098-11 s SLIDE

PS-141 BOARD

A-7513-659-A o MOUNTED CIRCUIT BOARD
"PS-141"

C1 1-124-580-11 s ELECT 330 20% 25V
C3 1-131-583-11 s TANTALUM 150 20% 16V
C8 1-124-477-11 s ELECT 47 20% 25V
C12 1-126-101-11 s ELECT 100 20% 16V
C13 1-124-910-11 s ELECT 47 20% 50V

C15 1-124-036-11 s ELECT 330 20% 16V
C16 1-131-583-11 s TANTALUM 150 20% 16V
C17 1-131-583-11 s TANTALUM 150 20% 16V
C18 1-124-120-11 s ELECT 220 20% 16V
C19 1-124-477-11 s ELECT 47 20% 25V

Ref.No. Parts No. SP Description

C20 1-126-101-11 s ELECT 100 20% 16V
C21 1-124-477-11 s ELECT 47 20% 25V
C22 1-131-583-11 s TANTALUM 150 20% 16V
C23 1-131-583-11 s TANTALUM 150 20% 16V
C30 1-124-910-11 s ELECT 47 20% 50V

C31 1-124-918-11 s ELECT 47 20% 63V
C38 1-135-070-95 s TANTALUM CHIP 0.1 10% 35V
C47 1-124-478-11 s ELECT 100 20% 25V
C49 1-124-667-11 s ELECT 10 20% 100V
C50 1-124-667-11 s ELECT 10 20% 100V

CN1 1-566-567-11 o RECEPTACLE, 60P MALE

D1 8-719-982-04 s ERB81-004
D2 8-719-100-05 s 1S2837
D3 8-719-100-05 s 1S2837
D4 8-719-100-03 s 1S2835
D5 8-719-102-51 s 1S251

D6 8-719-100-05 s 1S2837
D7 8-719-100-05 s 1S2837
D8 8-719-908-06 s ERA81-005
D9 8-719-908-06 s ERA81-005
D10 8-719-908-06 s ERA81-005

D11 8-719-908-06 s ERA81-005
D12 8-719-908-06 s ERA81-005
D13 8-719-908-06 s ERA81-005
D14 8-719-908-06 s ERA81-005
D15 8-719-908-06 s ERA81-005

D16 8-719-907-30 s ERB84-009
D17 8-719-907-30 s ERB84-009
D18 8-719-907-30 s ERB84-009
D19 8-719-907-30 s ERB84-009

IC1 8-759-914-04 s TL494CNS: TI
IC2 8-759-939-68 s TLO62ACPS: TI
IC3 8-759-700-07 s NJM2903M: JRC
IC4 8-759-906-54 s TLO64CNS: TI
IC5 8-759-908-17 s TLO82CPS: TI
IC6 8-759-208-11 s TC4053BFHB: TOSHIBA

L1 1-408-932-11 s MICRO 100
L2 1-410-304-11 s COIL, SF
L3 1-421-013-21 s HORIZONTA CHOKE 25
L6 1-421-013-21 s HORIZONTA CHOKE 25
L7 1-421-013-21 s HORIZONTA CHOKE 25

Q1 8-729-100-66 s 2SC1623
Q2 8-729-800-68 s 2SB815
Q3 8-729-304-35 s 2SJ122
Q4 8-729-100-66 s 2SC1623
Q5 8-729-100-76 s 2SA812

Q6 8-729-100-66 s 2SC1623
Q7 8-729-113-33 s 2SB733-4
Q8 8-729-100-66 s 2SC1623
Q9 8-729-100-76 s 2SA812
Q10 8-729-177-43 s 2SD774

Ref.No.	Parts No.	SP Description
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Q11	8-729-177-43	s 2SD774
Q12	8-729-177-32	s 2SD773
Q13	8-729-100-76	s 2SA812
Q14	8-729-177-32	s 2SD773
Q15	8-729-100-66	s 2SC1623
Q16	8-729-100-66	s 2SC1623
Q17	8-729-384-48	s 2SA844
Q18	8-729-100-66	s 2SC1623
Q19	8-729-113-33	s 2SB733-4
Q20	8-729-100-66	s 2SC1623
Q21	8-729-122-63	s 2SA1226
Q22	8-729-109-43	s 2SK94-X3
Q23	8-729-100-76	s 2SA812
Q24	8-729-100-76	s 2SA812
Q25	8-729-100-76	s 2SA812
Q26	8-729-177-43	s 2SD774
Q27	8-729-100-66	s 2SC1623
Q28	8-729-100-66	s 2SC1623
Q29	8-729-100-66	s 2SC1623

R29	1-249-403-11	s CARBON 68 5% 1/4W
R30	1-249-403-11	s CARBON 68 5% 1/4W

RV1	1-230-521-11	s METAL 2.2K
RV2	1-230-521-11	s METAL 2.2K
RV4	1-230-521-11	s METAL 2.2K
RV7	1-237-505-11	s CERMET 50K
RV8	1-237-505-11	s CERMET 50K

RV9	1-237-505-11	s CERMET 50K
RV10	1-230-523-11	s METAL 10K
RV11	1-230-523-11	s METAL 10K
RV12	1-230-523-11	s METAL 10K

S1	1-571-259-11	s SLIDE
S2	1-571-259-11	s SLIDE

T1	1-449-149-12	s DC-DC CONVERTER
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SG-120 BOARD

A-7513-869-A	o MOUNTED CIRCUIT BOARD "SG-120" (EK)
A-7513-872-A	o MOUNTED CIRCUIT BOARD "SG-120" (BRZ)

C2	1-126-157-11	s ELECT 10 20% 16V
C4	1-126-152-11	s ELECT 47 20% 6.3V
C8	1-126-157-11	s ELECT 10 20% 16V
C9	1-126-157-11	s ELECT 10 20% 16V
C13	1-126-157-11	s ELECT 10 20% 16V

Ref.No.	Parts No.	SP Description
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C22	1-126-157-11	s ELECT 10 20% 16V
C24	1-126-157-11	s ELECT 10 20% 16V
C27	1-126-157-11	s ELECT 10 20% 16V
C29	1-126-157-11	s ELECT 10 20% 16V
C33	1-163-113-00	s CERAMIC CHIP 68PF 5% 50V
C41	1-163-135-00	s CERAMIC CHIP 560PF 5% 50V
C43	1-131-370-00	s TANTALUM 6.8 10% 10V

CN1	1-566-567-11	o RECEPTACLE, 60P MALE
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CP1	1-577-182-11	s OSCILLATOR, CRYSTAL 28.375MHZ (EK)
CP1	1-527-798-12	s OSCILLATOR, CRYSTAL 14.3024MHZ (BRZ)

D1	8-719-100-03	s 1S2835
D2	8-719-101-23	s 1SS123
D3	8-719-100-03	s 1S2835
D4	8-719-101-23	s 1SS123
D5	8-719-100-03	s 1S2835

IC1	1-807-836-11	s SEP
IC2	8-741-134-00	s BX1340: SONY
IC3	8-759-208-11	s TC4053BFH8: TOSHIBA
IC4	8-741-129-21	s BX1292A: SONY Serial No. 40001-45330 (EK) Serial No. 70001-70050 (BRZ)
	1-808-513-12	s IB-38: SONY Serial No. 45331- (EK) Serial No. 70051- (BRZ)
IC5	8-741-133-80	s BX1338: SONY Serial No. 40001-44930 (EK) Serial No. 70001-70050 (BRZ)
	1-808-514-11	s IB-37: SONY Serial No. 44931- (EK) Serial No. 70051- (BRZ)

IC6	8-757-930-11	s CX7930A: SONY
IC7	8-759-907-81	s SN74LS221NS: SONY
IC8	8-759-908-17	s TL082CPS: SONY
IC9	8-759-925-74	s SN74HC04NS: TI
IC10	8-759-908-17	s TL082CPS: TI
IC11	8-759-200-90	s TC4538BF: TOSHIBA
IC12	8-759-907-21	s CX7969: SONY
IC13	8-759-939-68	s TL062ACPS: TI
IC14	8-759-973-99	s CXD1361M: SONY (EK)

Q1	8-729-100-76	s 2SA812
Q2	8-729-100-66	s 2SC1623
Q5	8-729-100-76	s 2SA812
Q6	8-729-100-66	s 2SC1623
Q7	8-729-100-66	s 2SC1623

Ref.No. Parts No. SP Description

Q8 8-729-116-06 s 2SK160-K6
Q9 8-729-100-76 s 2SA812
Q10 8-729-100-66 s 2SC1623
Q11 8-729-100-76 s 2SA812
Q12 8-729-175-73 s 2SC2757

RV1 1-237-504-21 s CERMET 20K
RV2 1-237-504-21 s CERMET 20K
RV3 1-230-524-11 s METAL 22K
RV4 1-237-504-21 s CERMET 20K
RV5 1-230-524-11 s METAL GLAZE 22K

SW-166 BOARD

1-625-407-11 o PRINTED CIRCUIT BOARD
"SW-166"

S1 1-553-739-12 s KEY BOARD
S2 1-553-739-12 s KEY BOARD

SW-167 BOARD

1-625-403-11 o PRINTED CIRCUIT BOARD
"SW-167"

D1 8-719-815-55 s 1S1555
D2 8-719-815-55 s 1S1555
D3 8-719-815-55 s 1S1555

S1 1-570-984-11 s TOGGLE
S2 1-571-397-11 s TOGGLE
S3 1-570-985-11 s TOGGLE
S4 1-570-985-11 s TOGGLE
S5 1-571-396-11 s TOGGLE

SW-168 BOARD

1-625-404-11 o PRINTED CIRCUIT BOARD
"SW-168"

S1 1-553-739-12 s KEY BOARD
S2 1-570-853-11 s SLIDE
S3 1-570-863-11 s SLIDE
S4 1-570-863-11 s SLIDE

Ref.No. Parts No. SP Description

SW-169 BOARD

1-625-405-11 o PRINTED CIRCUIT BOARD
"SW-169"

S1 1-553-739-12 s KEY BOARD

TG-32 BOARD

(Serial No. 40001-44060 (EK))
70001-70050 (BRZ))

A-7513-865-A o MOUNTED CIRCUIT BOARD
"TG-32" (EK)
A-7513-649-A o MOUNTED CIRCUIT BOARD
"TG-32" (BRZ)

C7 1-127-489-11 s ELECT(SOLID) 10 20% 10V
C8 1-127-492-11 s ELECT(SOLID) 33 20% 10V
C9 1-126-176-11 s ELECT 220 20% 6.3V (EK)
C9 1-124-444-00 s ELECT 220 20% 6.3V (BRZ)
C10 1-127-491-11 s ELECT(SOLID) 22 20% 10V
C20 1-163-273-11 s CERAMIC 820PF 5% 50V (BRZ)

CP1 1-577-114-11 s OSCILLATOR, CRYSTAL
29.5MHz (EK)
CP1 1-577-046-11 s OSCILLATOR, CRYSTAL
28.375MHz (BRZ)

D1 8-719-100-03 s 1S2835
D2 8-719-101-23 s 1SS123
D3 8-719-100-05 s 1S2837
D4 8-719-911-19 s 1S1555(EK)

IC1 8-752-326-69 s CXD1035BQ-Z: SONY
IC2 8-759-204-95 s TC74HC02F: TOSHIBA
IC4 8-759-204-96 s TC74HC04F: TOSHIBA
IC5 8-759-925-76 s SN74HC08NS: TI
IC6 8-759-206-28 s TC74HC123F: TOSHIBA (EK)

Q1 8-729-100-76 s 2SA812
Q2 8-729-101-25 s 2SC1009A
Q3 8-729-101-25 s 2SC1009A
Q4 8-729-101-25 s 2SC1009A
Q5 8-729-122-63 s 2SA1226

RV1 1-237-500-11 s CERMET 1K

S1 1-571-395-11 s SLIDE

Ref.No. Parts No. SP Description

TG-69 BOARD

(Serial No 44061- (EK)
70051- (BRZ))

A-7515-113-A o MOUNTED CIRCUIT BOARD (P)
"TG-69" (EK)
A-7515-114-A o MOUNTED CIRCUIT BOARD (N)
"TG-69" (BRZ)

C1 1-163-104-00 s CERAMIC CHIP 30PF 5% 50V
C7 1-135-159-21 s TANTALUM CHIP 10 10% 20V
C8 1-127-531-11 s ELECT (SOLID) 33 20% 20V
C9 1-126-176-11 s ELECT 220 20% 10V
C10 1-127-491-00 s ELECT (SOLID) 22 20% 10V

C13 1-163-227-11 s CERAMIC CHIP 10PF 5% 50V
C14 1-163-227-11 s CERAMIC CHIP 10PF 5% 50V
C16 1-135-164-21 s TANTALUM CHIP 22 20% 20V
C19 1-135-085-21 s TANTALUM CHIP 4.7 10% 16V
C20 1-163-263-11 s CERAMIC CHIP 330PF 5%
50V (EK)

C21 1-163-133-00 s CERAMIC CHIP 470PF 5%
50V (EK)
C23 1-163-139-00 s CERAMIC CHIP 820PF 5% 50V
C31 1-135-159-21 s TANTALUM CHIP 10 10% 20V
C33 1-135-159-21 s TANTALUM CHIP 10 10% 20V
C34 1-135-159-21 s TANTALUM CHIP 10 10% 20V

CN1 1-565-138-11 o RECEPTACLE, 5P MALE
CN2 1-565-139-11 o RECEPTACLE, 6P MALE
CN3 1-565-138-11 o RECEPTACLE, 5P MALE
CN4 1-565-138-11 o RECEPTACLE, 5P MALE
CN5 1-565-141-11 o RECEPTACLE, 8P MALE

CN6 1-565-143-11 o RECEPTACLE, 10P MALE
CN7 1-565-137-11 o RECEPTACLE, 4P MALE
CN8 1-565-143-11 o RECEPTACLE, 10P MALE
CN9 1-565-135-11 o RECEPTACLE, 2P MALE

CNI8 1-526-654-00 o SOCKET, IC, 16P

CP1 1-577-114-11 s OSCILLATOR, CRYSTAL
29.5MHz (EK)
CP1 1-577-046-11 s OSCILLATOR, CRYSTAL
28.63636MHz (BRZ)

D1 8-719-104-34 s 1S2836
D2 8-719-800-76 s 1S2226
D3 8-719-104-34 s 1S2836
D4 8-719-104-34 s 1S2836

IC1 8-752-326-69 s CXD1035BQ-Z: SONY
IC2 8-759-925-72 s SN74HC02ANS: TI
IC3 8-759-735-55 s MB7114-LPF (DXC-M7)
IC4 8-759-925-74 s SN74HC04ANS: TI
IC5 8-759-925-76 s SN74HC08ANS: TI

Ref.No. Parts No. SP Description

IC6 8-759-239-55 s TC74HC123AF: TOSHIBA (EK)
IC7 8-759-148-39 s CXD8095Q: SONY
IC9 8-759-234-20 s TC7S08F: TOSHIBA
IC10 8-759-234-20 s TC7S08F: TOSHIBA
IC11 8-759-234-20 s TC7S08F: TOSHIBA

IC12 8-759-234-20 s TC7S08F: TOSHIBA
IC13 8-759-234-20 s TC7S08F: TOSHIBA

L1 1-410-713-31 s MICRO 47
L2 1-410-697-21 s MICRO 2.2

Q1 8-729-216-22 s 2SA1162-G
Q2 8-729-101-25 s 2SC1009A-FA4
Q3 8-729-101-25 s 2SC1009A-FA4
Q4 8-729-101-25 s 2SC1009A-FA4
Q5 8-729-122-63 s 2SA1226-E4

Q6 8-729-216-22 s 2SA1162-G

R28 1-216-652-11 s METAL CHIP 1.1K 0.5%
1/10W (EK)
R29 1-216-655-11 s METAL CHIP 1.5K 0.5%
1/10W (EK)

RV1 1-237-500-21 s CERMET 1K

S1 1-571-395-11 s SLIDE

VA-46 BOARD

A-7513-653-A o MOUNTED CIRCUIT BOARD
"VA-46"

C4 1-162-806-21 s CERAMIC 0.1 10% 50V
C5 1-163-086-00 s CERAMIC CHIP 3PF
±0.25PF 50V
C7 1-163-092-00 s CERAMIC CHIP 9PF
±0.25PF 50V
C13 1-163-833-11 s CERAMIC CHIP 0.068 25V
C14 1-163-833-11 s CERAMIC CHIP 0.068 25V

C18 1-163-833-11 s CERAMIC CHIP 0.068 25V
C21 1-124-255-11 s ELECT 1 20% 50V
C23 1-162-806-21 s CERAMIC 0.1 10% 50V
C24 1-163-088-00 s CERAMIC CHIP 5PF
±0.25PF 50V
C32 1-162-806-21 s CERAMIC 0.1 10% 50V

C36 1-163-095-00 s CERAMIC CHIP 12PF 5% 50V
C40 1-163-833-11 s CERAMIC CHIP 0.068 25V
C41 1-163-833-11 s CERAMIC CHIP 0.068 25V
C45 1-163-833-11 s CERAMIC CHIP 0.068 25V
C49 1-162-806-21 s CERAMIC 0.1MF 10% 50V

Ref.No.	Parts No.	SP Description	Ref.No.	Parts No.	SP Description
C50	1-163-086-00	s CERAMIC CHIP 3PF ±0.25PF 50V	Q1	8-729-100-76	s 2SA812
C57	1-162-806-21	s CERAMIC 0.1 10% 50V	Q2	8-729-100-66	s 2SC1623
C59	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q3	8-729-175-73	s 2SC2757
C65	1-163-833-11	s CERAMIC CHIP 0.068 25V	Q4	8-729-100-66	s 2SC1623
C66	1-163-833-11	s CERAMIC CHIP 0.068 25V	Q5	8-729-122-63	s 2SA1226
C70	1-163-833-11	s CERAMIC CHIP 0.068 25V	Q6	8-729-122-63	s 2SA1226
C74	1-162-806-21	s CERAMIC 0.1 10% 50V	Q7	8-729-175-73	s 2SC2757
C89	1-163-095-00	s CERAMIC CHIP 12PF 5% 50V	Q9	8-729-175-73	s 2SC2757
C90	1-163-086-00	s CERAMIC CHIP 3PF ±0.25PF 50V	Q10	8-729-100-76	s 2SA812
C92	1-163-088-00	s CERAMIC CHIP 5PF ±0.25PF 50V	Q11	8-729-100-66	s 2SC1623
CN1	1-566-567-11	o RECEPTACLE, 60P MALE	Q12	8-729-100-66	s 2SC1623
D1	8-719-105-32	s RD2.7M-B2	Q13	8-729-122-63	s 2SA1226
D2	8-719-100-03	s 1S2835	Q14	8-729-122-63	s 2SA1226
D3	8-719-105-32	s RD2.7M-B2	Q15	8-729-100-66	s 2SC1623
D4	8-719-105-64	s RD4.3M-B2	Q16	8-729-100-76	s 2SA812
D5	8-719-105-64	s RD4.3M-B2	Q17	8-729-122-63	s 2SA1226
D6	8-719-105-64	s RD4.3M-B2	Q18	8-729-122-63	s 2SA1226
D7	8-719-100-05	s 1S2837	Q19	8-729-175-73	s 2SC2757
D8	8-719-100-05	s 1S2837	Q20	8-729-175-73	s 2SC2757
D9	8-719-100-05	s 1S2837	Q21	8-729-100-66	s 2SC1623
D10	8-719-100-03	s 1S2837	Q23	8-729-109-43	s 2SK94-X3
D11	8-719-100-03	s 1S2837	Q24	8-729-109-43	s 2SK94-X3
D12	8-719-100-03	s 1S2837	Q25	8-729-100-76	s 2SA812
FL1	1-409-427-11	s TRAP	Q26	8-729-100-76	s 2SA812
FL2	1-409-427-11	s TRAP	Q27	8-729-109-43	s 2SK94-X3
FL3	1-409-427-11	s TRAP	Q28	8-729-100-66	s 2SC1623
IC1	8-759-700-95	s NJM1496M: JRC	Q29	8-729-100-76	s 2SA812
IC2	8-741-108-20	s BX1082: SONY	Q30	8-729-100-66	s 2SC1623
IC3	8-759-908-16	s TL072CPS: TI	Q31	8-729-175-73	s 2SC2757
IC4	8-759-009-07	s MC14053BF: MOTOROLA	Q32	8-729-100-66	s 2SC1623
IC5	8-759-939-68	s TL062ACPS: TI	Q33	8-729-122-63	s 2SA1226
IC6	8-759-700-95	s NJM1496M: JRC	Q34	8-729-122-63	s 2SA1226
IC7	8-741-108-20	s BX1082: SONY	Q35	8-729-175-73	s 2SC2757
IC8	8-759-908-16	s TL072CPS: TI	Q36	8-729-100-66	s 2SC1623
IC9	8-759-009-07	s MC14053BF: MOTOROLA	Q37	8-729-175-73	s 2SC2757
IC10	8-759-700-95	s NJM1496M: JRC	Q38	8-729-100-76	s 2SA812
IC11	8-741-108-20	s BX1082: SONY	Q39	8-729-100-66	s 2SC1623
IC12	8-759-908-16	s TL072CPS: TI	Q40	8-729-100-66	s 2SC1623
IC13	8-759-009-07	s MC14053BF: MOTOROLA	Q41	8-729-122-63	s 2SA1226
IC14	8-759-009-07	s MC14053BF: MOTOROLA	Q42	8-729-122-63	s 2SA1226
IC15	8-759-939-68	s TL062ACPS: TI	Q43	8-729-100-66	s 2SC1623
			Q44	8-729-122-63	s 2SA1226
			Q45	8-729-122-63	s 2SA1226
			Q46	8-729-175-73	s 2SC2757
			Q47	8-729-175-73	s 2SC2757
			Q48	8-729-100-66	s 2SC1623
			Q49	8-729-100-76	s 2SA812
			Q50	8-729-109-43	s 2SK94-X3
			Q51	8-729-109-43	s 2SK94-X3
			Q52	8-729-100-76	s 2SA812
			Q53	8-729-100-76	s 2SA812
			Q54	8-729-109-43	s 2SK94-X3
			Q55	8-729-100-76	s 2SA812
			Q56	8-729-100-66	s 2SC1623
			Q57	8-729-175-73	s 2SC2757

Ref.No.	Parts No.	SP Description
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Q58	8-729-100-66	s 2SC1623
Q59	8-729-122-63	s 2SA1226
Q60	8-729-122-63	s 2SA1226
Q61	8-729-175-73	s 2SC2757
Q62	8-729-100-66	s 2SC1623

Q63	8-729-175-73	s 2SC2757
Q64	8-729-100-76	s 2SA812
Q65	8-729-100-66	s 2SC1623
Q66	8-729-100-66	s 2SC1623
Q67	8-729-122-63	s 2SA1226

Q68	8-729-122-63	s 2SA1226
Q69	8-729-100-66	s 2SC1623
Q70	8-729-122-63	s 2SA1226
Q71	8-729-122-63	s 2SA1226
Q72	8-729-175-73	s 2SC2757

Q73	8-729-175-73	s 2SC2757
Q74	8-729-100-66	s 2SC1623
Q75	8-729-100-76	s 2SA812
Q76	8-729-109-43	s 2SK94-X3
Q77	8-729-109-43	s 2SK94-X3

Q78	8-729-100-76	s 2SA812
Q79	8-729-100-76	s 2SA812
Q80	8-729-109-43	s 2SK94-X3
Q81	8-729-100-66	s 2SC1623
Q82	8-729-100-66	s 2SC1623

Q83	8-729-100-66	s 2SC1623
Q84	8-729-100-66	s 2SC1623
Q85	8-729-100-66	s 2SC1623
Q86	8-729-100-66	s 2SC1623
Q87	8-729-100-66	s 2SC1623

Q88	8-729-100-66	s 2SC1623
Q89	8-729-175-73	s 2SC2757
Q90	8-729-175-73	s 2SC2757
Q91	8-729-175-73	s 2SC2757
Q92	8-729-100-66	s 2SC1623

R9	1-216-122-11	s METAL 1.1M 5% 1/10W
R28	1-216-654-11	s METAL CHIP 1.3K 0.5% 1/10W
R93	1-216-122-11	s METAL 1.1M 5% 1/10W
R110	1-216-654-11	s METAL CHIP 1.3K 0.5% 1/10W
R159	1-216-122-11	s METAL 1.1M 5% 1/10W

R164	1-216-068-11	s METAL 6.2K 5% 1/10W
R180	1-216-654-11	s METAL CHIP 1.3K 0.5% 1/10W

RV1	1-230-523-11	s METAL 10K
RV2	1-230-520-11	s METAL 1K
RV3	1-230-520-11	s METAL 1K
RV4	1-237-504-11	s CERMET 20K
RV5	1-230-523-11	s METAL 10K

RV6	1-230-519-11	s METAL 470
RV7	1-230-520-11	s METAL 1K
RV8	1-237-504-11	s CERMET 20K
RV9	1-230-523-11	s METAL 10K
RV10	1-230-520-11	s METAL 1K

Ref.No.	Parts No.	SP Description
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RV11	1-230-520-11	s METAL 1K
RV12	1-237-504-11	s CERMET 20K
RV13	1-230-520-11	s METAL 1K
RV14	1-230-520-11	s METAL 1K
RV15	1-230-520-11	s METAL 1K

RV16	1-230-523-11	s METAL 10K
RV17	1-237-128-11	s METAL 100
RV18	1-237-128-11	s METAL 100
RV19	1-237-128-11	s METAL 100

FRAME

A-7575-116-A	s FRONT UNIT ASSY (EK)
A-7575-111-A	s FRONT UNIT ASSY (BRZ)

1-547-259-11	o FILTER UNIT, OPTICAL
--------------	------------------------

C101	1-130-483-00	s MYLAR 0.01 5% 50V
C101	1-130-483-00	s MYLAR 0.01 5% 50V

CB101	1-532-997-11	s CIRCUIT BREAKER "BREAKER"
-------	--------------	-----------------------------

CN101	1-562-244-11	o RECEPTACLE, 26P MALE "CCZ"
CN102	1-561-320-31	s RECEPTACLE, 8P FEMALE "VF"
CN103	1-509-184-51	s RECEPTACLE, 3P FEMALE "MIC IN"
CN104	1-564-603-11	s RECEPTACLE, 4P MALE "DC IN"
CN105	1-562-782-21	s RECEPTACLE, 10P FEMALE "REMOTE"

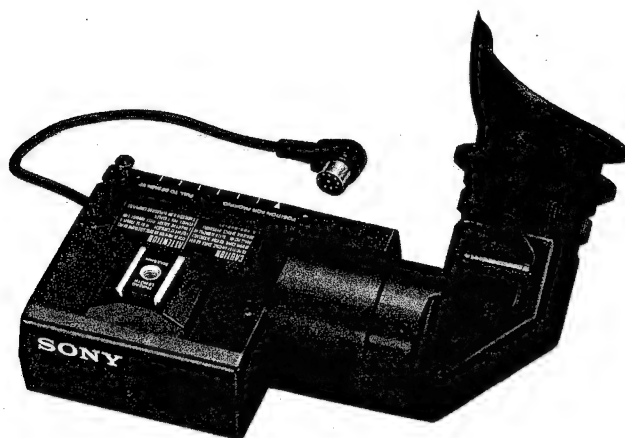
CN106	1-562-222-31	s RECEPTACLE, 6P FEMALE "LENS REMOTE"
CN107	1-562-221-41	s RECEPTACLE, 12P FEMALE "LENS"
CN108	1-561-781-31	s RECEPTACLE, BNC "GENLOCK"
CN109	1-561-781-31	s RECEPTACLE, BNC "VIDEO OUT"

J101	1-507-682-11	s JACK "EAR"
------	--------------	--------------

S101	1-554-934-11	s TOGGLE "POWER"
S102	1-552-665-11	s MICRO
S103	1-554-486-11	s TOGGLE "AUTO W/B BAL"

1.5-INCH

ELECTRONIC VIEWFINDER

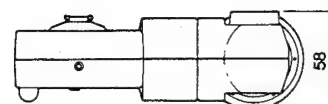
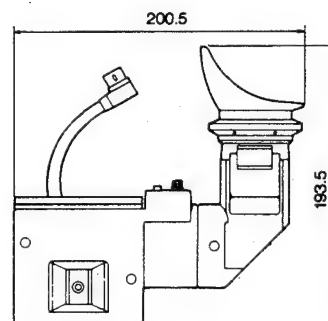


SPECIFICATION

Picture tube	1.5-inch monochrome
Indicators	REC/TALLY indicator BATT indicator GAIN UP indicator
Resolution	400 lines
Power requirements	12 V DC
Power consumption	2.3 W
Weight	Approx. 600 g (1 lb 5 oz)
Dimensions	Approx. 201 × 68 × 184 mm (w/h/d) (7 ⁷ / ₈ × 2 ¹¹ / ₁₆ × 7 ¹ / ₄ inches)
Supplied accessory	Operating Instructions (1)

Dimensions

Unit : mm
(inches)



Design and specifications subject to change without notice.

SONY®

SERVICE MANUAL

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VOL. 1

1. GENERAL DESCRIPTION
2. SERVICE INFORMATION
3. ALIGNMENT

VOL. 2

4. BLOCK DIAGRAMS

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VF-18A		
VF-23		

5. SEMICONDUCTOR

Semiconductor 5-1
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6. SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS

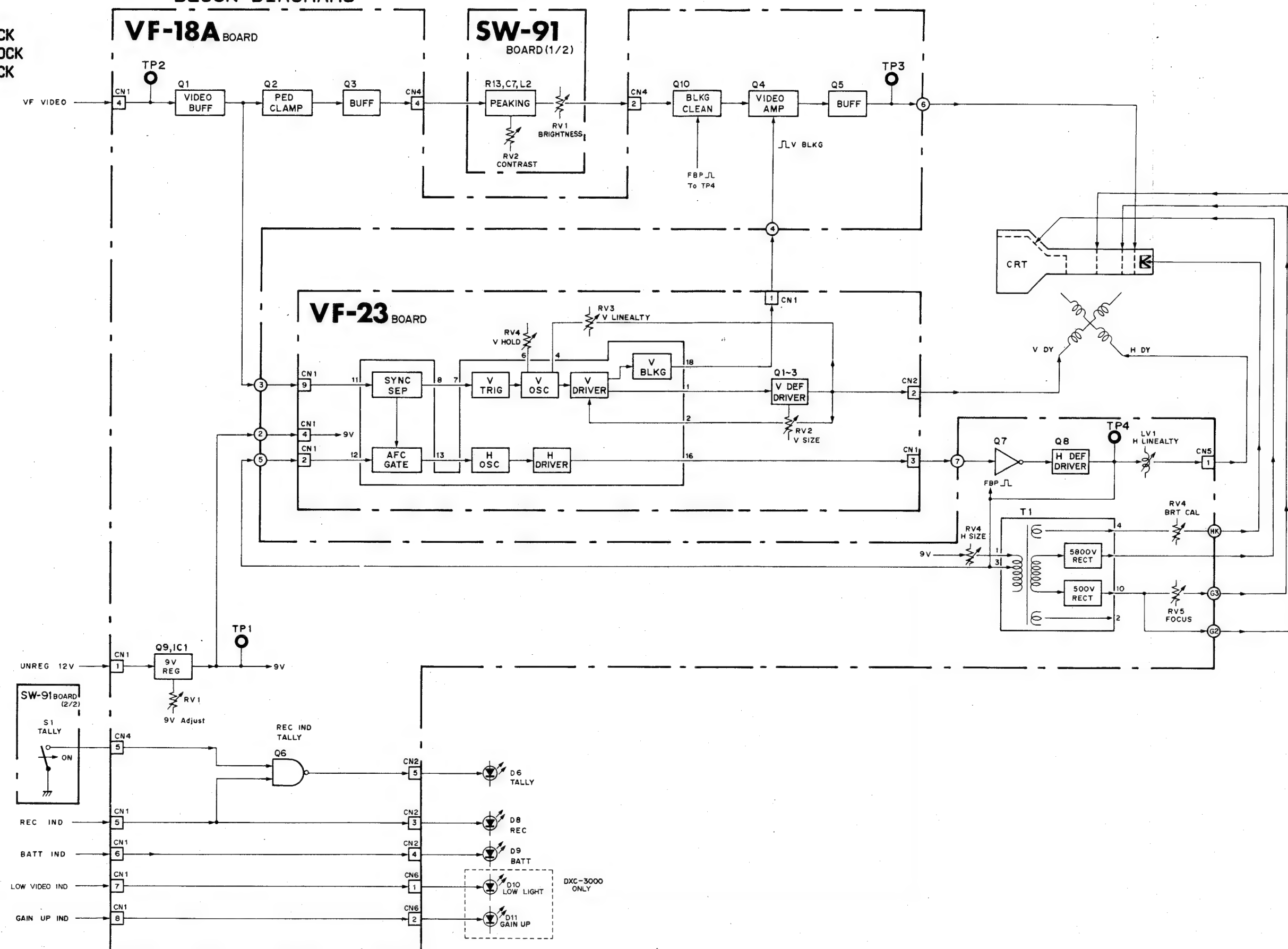
SW-91	} 6-3
VF-18A		
VF-23		

7. SPARE PARTS

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SECTION 4 BLOCK DIAGRAMS

SW-91 BLOCK
VF-18A BLOCK
VF-23 BLOCK

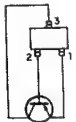


SECTION 5 SEMICONDUCTOR

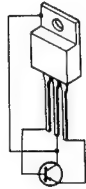
The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

< Tr >

TOP VIEW (SCALE 4/1) 2SA812



2SB856



TOP VIEW (SCALE 4/1)



2SC1623
2SC2757

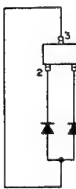
BOTTOM VIEW



2SC756

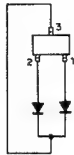
< Di >

TOP VIEW (SCALE 4/1)



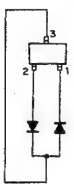
1S2835

TOP VIEW (SCALE 4/1)



1S2837

TOP VIEW (SCALE 4/1)



1SS123



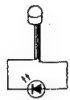
EBR5604S : RED



RH1
RH1A



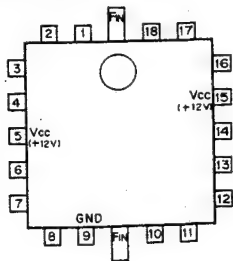
RD77EB



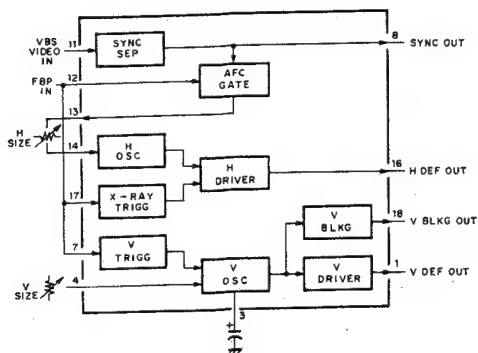
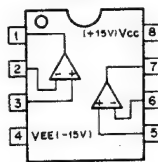
TLO102A : ORANGE

< IC >

HA11423MP (HITACHI) FLAT PACKAGE
TV H/V SYNC SIGNAL PROCESSOR
— TOP VIEW —

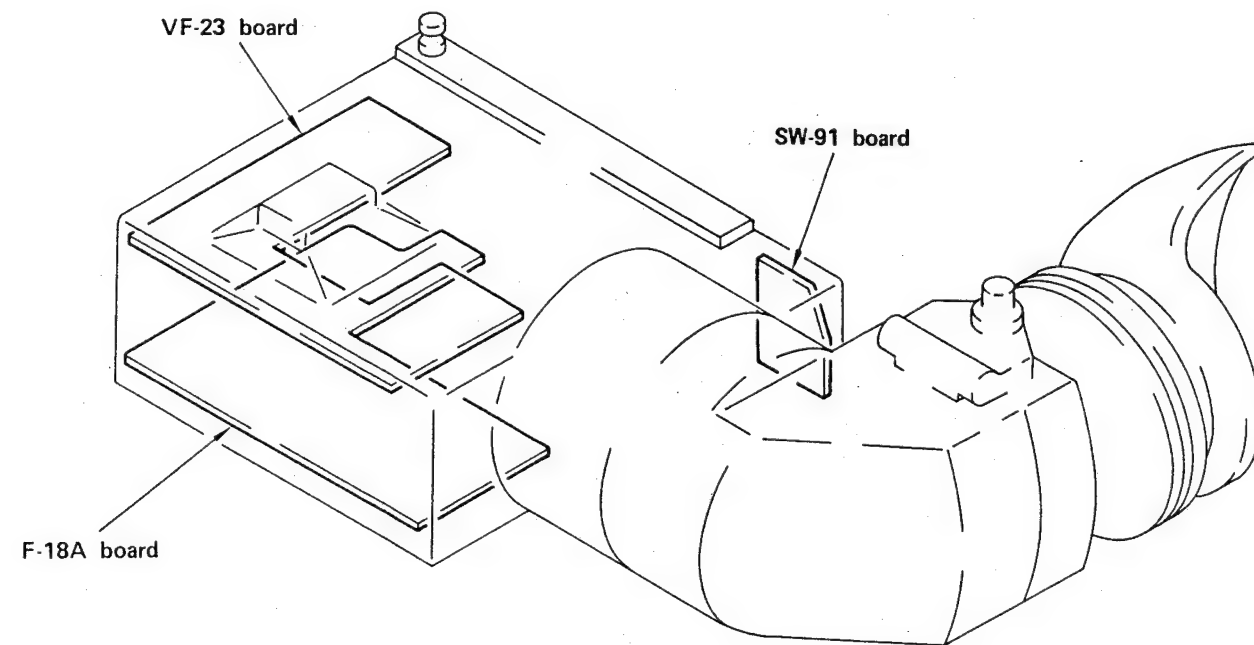


uPC4558C (NEC)
OPERATIONAL AMPLIFIER
— TOP VIEW —

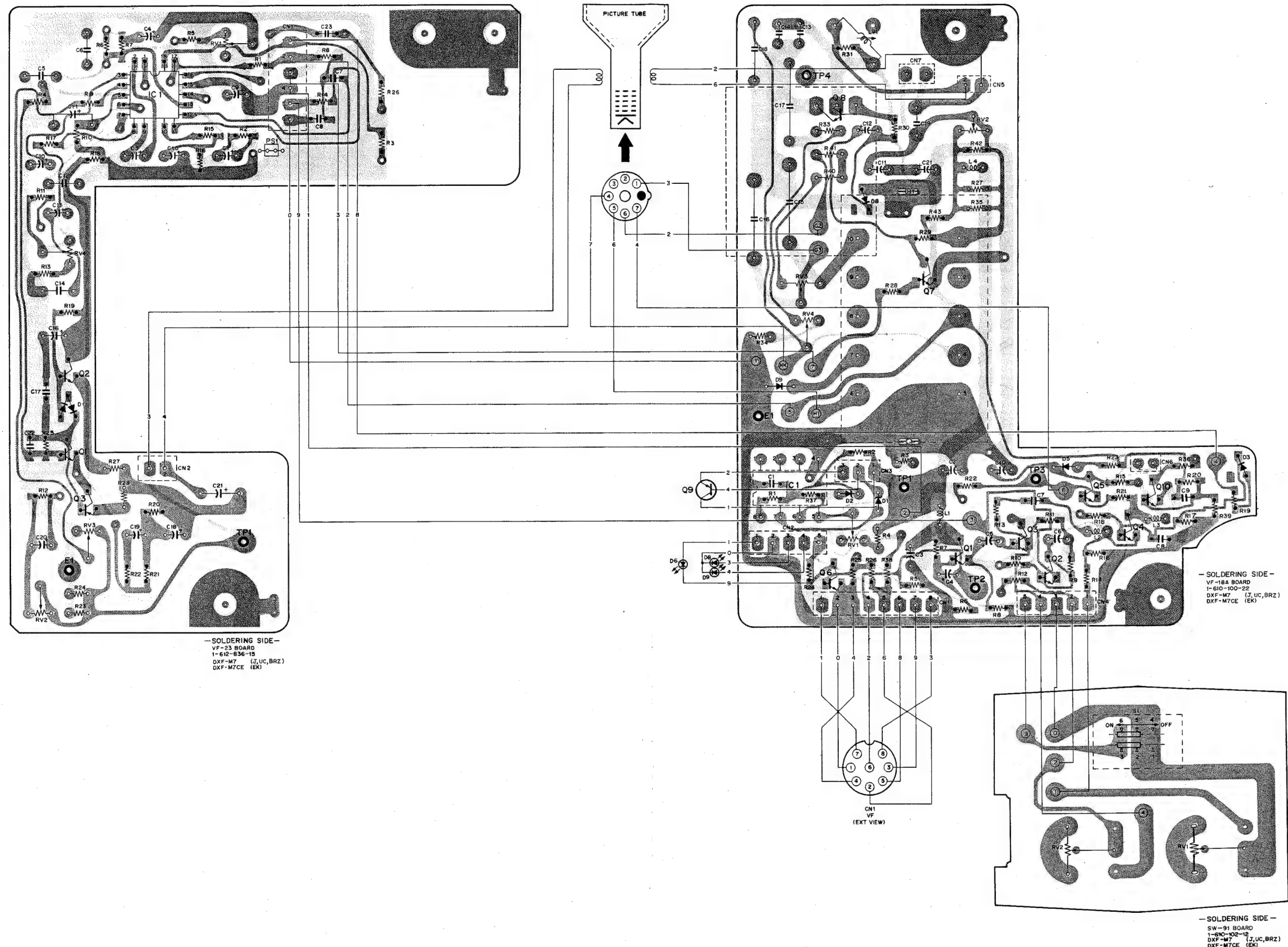


DXF-M7 (J, UC, BRZ)
DXF-M7CE (EK)

SECTION 6
SCHEMATIC DIAGRAMS & BOARD ILLUSTRATIONS

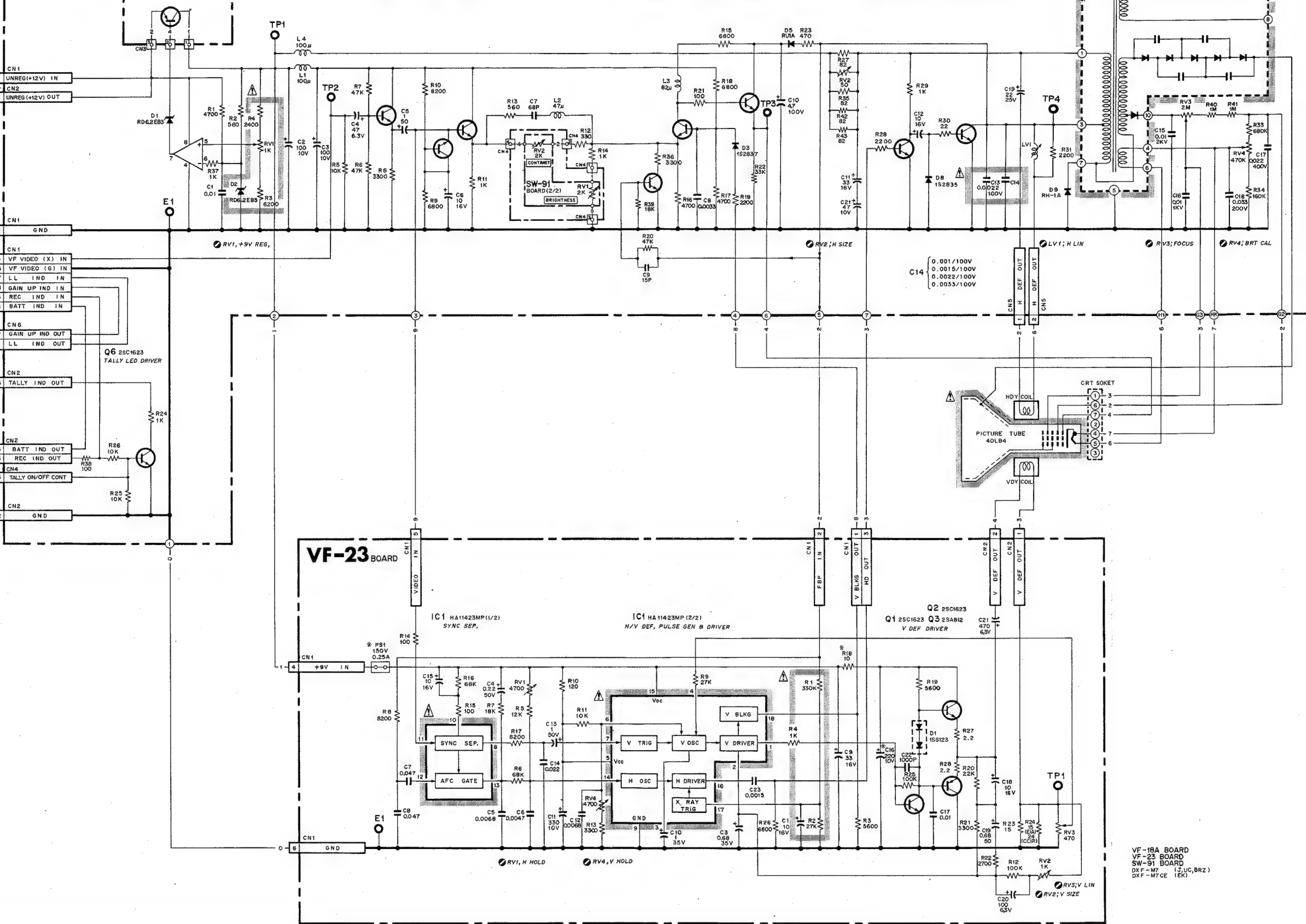


SW-91 BOARD
VF-18A BOARD
VF-23 BOARD



SW-91 BLOCK
VF-18A BLOCK
VF-23 BLOCK

VF-18A BOARD


Q9 2SB856 IC1 PC4558C
+9V REGQ1 2SC1623 Q2 2SC1623 Q3 2SC1623
VIDEO BUFFER CLAMP BUFFERQ10 2SC2757 Q4 2SC1623 Q5 2SC1623
CLAMP AMP BUFFERQ7 2SC1623 Q8 2SD1083L
H SIZE CONTROLLER & HIGH VOLTAGE DRIVER

VF-18A BOARD
VF-23 BOARD
SW-91 BOARD
DXF-M7 (J,UC,BRZ)
DXF-M7CE (EK)

SECTION 7 SPARE PARTS

7-1. PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer SONY service bulletions and service manual supplements.

3. The parts marked with "S" in the SP column of the exploded views and electical spare parts list are nomally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.



4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.



5. Abbreviation



REF.No.	DESCRIPTION	REF.No.	DESCRIPTION	REF.No.	DESCRIPTION
C	CAPACITOR	L	INDUCTOR	RV	VARIABLE RESISTOR
CN	CONNECTOR	LV	VARIABLE INDUCTOR	S	SWITCH
D	DIODE	Q	TRANSISTOR	T	TRANSFORMER
IC	IC	R	RESISTOR		

All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

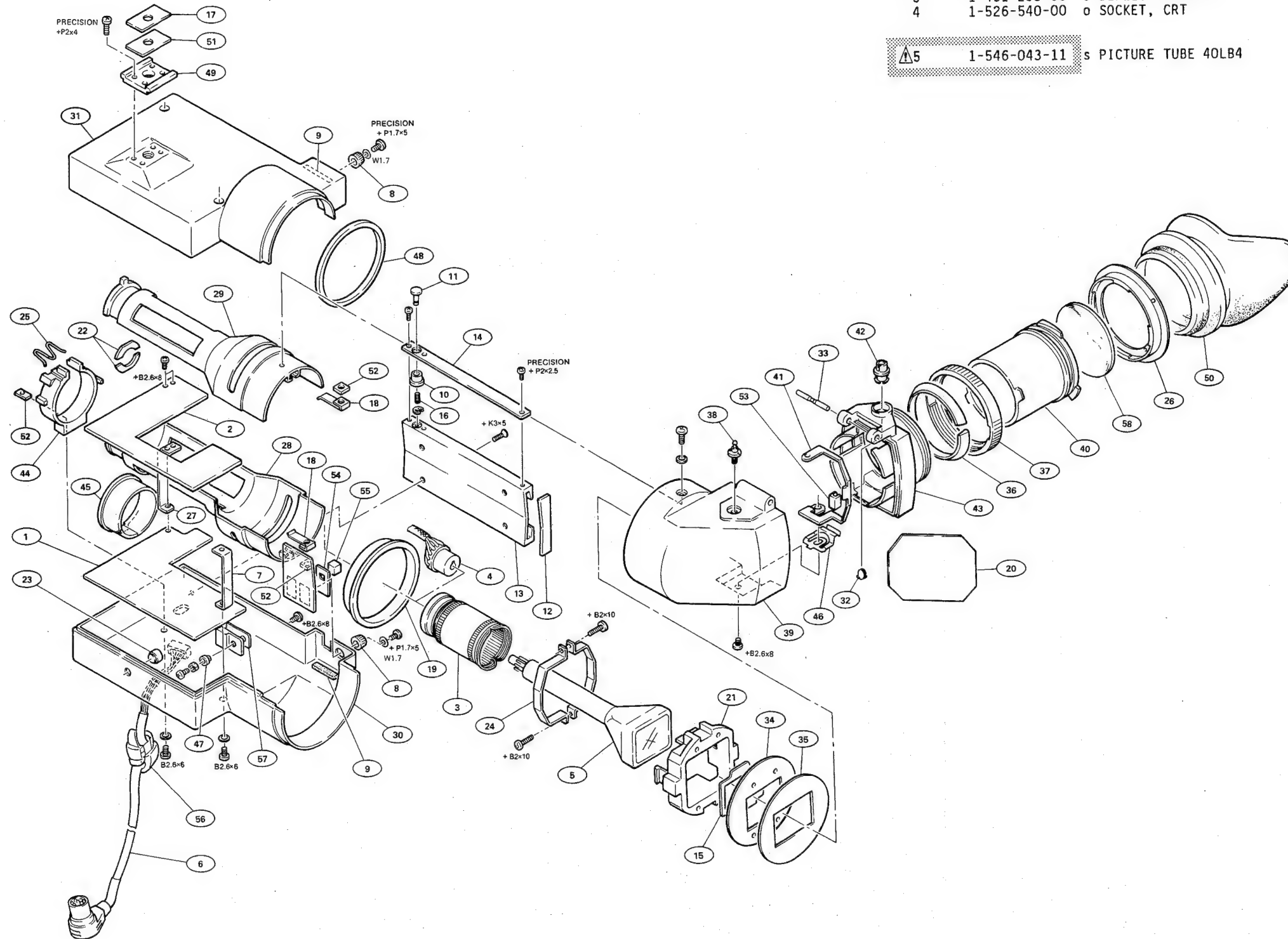
7-2. SCREWS

+B Bzn-N	
 	
7-621-□□□-□□	
SIZE	Parts No.
2 x 3	772-00
x 4	772-10
x 5	772-20
x 6	772-30
x 8	772-40
x 10	772-50
x 12	772-60
x 14	772-70
x 16	772-80
x 20	—
2.6 x 3	775-00
x 4	775-10
x 5	775-20
x 6	773-95
x 8	775-40
x 10	775-50
x 12	775-60
x 14	775-70
x 16	775-80
x 20	775-90

+B Cr-N	
 	
7-621-□□□-□□	
SIZE	Parts No.
2 x 3	772-08
x 4	772-18
x 5	771-06
x 6	772-38
x 8	772-48
x 10	772-58
x 12	772-68
x 14	772-78
x 16	772-88
x 20	—
2.6 x 3	775-08
x 4	773-86
x 5	770-87
x 6	770-67
x 8	770-99
x 10	773-87
x 12	775-68
x 14	775-78
x 16	775-88
x 20	773-91

PRECISION +P Bzn-N	
 	
7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.6	552-18
x 1.8	—
x 2	552-28
x 2.2	—
x 2.5	552-08
x 2.8	—
x 3	552-38
x 3.5	552-78
x 4	552-48
x 4.5	—
x 5	552-58
x 5.5	—
x 6	—
2 x 1.8	554-38
x 2	553-18
x 2.2	—
x 2.5	553-28
x 2.8	554-58
x 3	553-38
x 3.5	554-18
x 4	553-48
x 4.5	553-58
x 5	554-28
x 5.5	—
x 6	553-68
x 7	553-88
x 8	553-98
x 10	553-78
2.6 x 2.8	556-08
x 3	—
x 3.5	556-28
x 4	556-38
x 4.5	556-48
x 5	556-58
x 5.5	—
x 6	556-78
x 7	—
x 8	—
x 9	—
x 10	—

7-3. EXPLODED VIEW



No.	Parts No.	SP Description
1	A-7513-073-A	o MOUNTED CIRCUIT BOARD "VF-18A"
2	A-7513-075-A	o MOUNTED CIRCUIT BOARD "VF-23"
3	1-451-233-00	s DEFLECTION YOKE
4	1-526-540-00	o SOCKET, CRT
5	1-546-043-11	s PICTURE TUBE 40LB4

No.	Parts No.	SP Description
6	1-556-889-52	s CORD (WITH DIN PLUG) 8P
7	2-277-452-00	o BRACKET (B), PC BOARD
8	2-277-453-00	o KNOB, CONTROL
9	2-277-454-00	o CUSHION, SWITCH
10	2-277-456-00	o COLLAR, STOPPER
11	2-277-457-00	s KNOB, CONTROL
12	2-277-458-00	o RUBBER, STOPPER
13	2-277-459-11	o GUIDE, VF SLIDE
14	2-277-463-01	o LABEL, SLIDE BLOCK
15	2-277-464-00	o ILLUMINATOR
16	2-277-466-01	o SPRING, COMPRESSION
17	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA SHOE
18	2-277-469-01	o TERMINAL, VF GROUND
19	2-381-409-03	o RING, SLEEVE
20	2-381-494-01	o MIRROR
21	2-381-419-00	o HOLDER, CRT
22	2-381-420-00	o RETAINER, CRT
23	2-381-421-00	o HOLDER, LED
24	2-381-423-00	o BAND, CRT
25	2-381-424-11	o SPRING
26	2-381-426-01	o RING, LENS
27	2-381-427-00	o STOPPER, PC BOARD
28	2-381-428-06	o CASE (REAR) (1), CRT
29	2-381-429-06	o CASE (REAR) (2), CRT
30	2-381-435-12	o COVER (LOWER), VF
31	2-381-436-11	o COVER (UPPER), VF
32	2-381-461-02	s PIN, BLIND
33	2-381-462-02	o PIN
34	2-381-463-01	o SHEET, ADHESIVE, LABEL
35	2-381-483-01	o PLATE, ORNAMENTAL, CRT
36	2-381-466-01	o RING, RETAINER
37	2-381-467-01	o RING (2), LENS
38	2-381-468-01	s RING, STOPPER
39	2-381-469-01	o TUBE, VF
40	2-381-470-02	o HOLDER, LENS
41	2-381-495-01	o HOLDER, MIRROR
42	2-381-472-02	o STOPPER
43	2-381-473-02	o LID
44	2-381-476-01	o HOLDER (B), CRT CASE
45	2-381-477-01	o RING (C)
46	2-381-478-02	o CLAW, LOCK
47	2-832-007-00	s BUSHING (K), INSULATING
48	3-561-892-00	s BELT, COUNTER
49	3-657-700-00	s BRACKET, ACCESSORY
50	3-657-771-02	s EYECUP (2)
51	3-672-213-00	o SHEET, ADHESIVE
52	3-673-015-00	o PLATE, NUT (M2.6)
53	3-678-515-11	o EDGING, RUBBER
54	3-680-604-01	o PLATE, BLIND
55	3-680-605-00	o CAP, SLIDE
56	3-703-001-00	s BUSHING, CORD
57	3-703-037-00	o INSULATOR, TO-220
58	3-680-417-00	o LUPE (B), VF

7-4. ELECTRICAL PARTS LIST

Ref.No. Parts No. SP Description

VF-18A BOARD

△ A-7513-073-A o MOUNTED CIRCUIT BOARD
"VF-18A" (UC)

△ A-7513-074-A o MOUNTED CIRCUIT BOARD
"VF-18A" (EK)

C1 1-163-021-00 s CERAMIC CHIP 0.01 50V
C2 1-124-584-00 s ELECT 100 20% 10V
C3 1-124-139-00 s ELECT 100 20% 10V
C4 1-124-224-00 s ELECT 47 20% 6.3V
C5 1-123-611-00 s ELECT 1 20% 50V

C6 1-124-462-00 s ELECT 10 20% 16V
C7 1-124-224-00 s CERAMIC CHIP 68PF 5% 50V
C8 1-163-015-00 s CERAMIC CHIP 0.0033
10% 50V
C9 1-163-097-00 s CERAMIC CHIP 15PF 5% 50V
C10 1-123-383-00 s ELECT 4.7 20% 100V

C11 1-131-381-00 s TANTALUM 47 10% 10V
C12 1-131-371-00 s TANTALUM 10 20% 16V

△ C13 1-108-369-00 s MYLAR 0.0022 10% 100V

△ C14 1-106-172-00 s MYLAR 0.001 10% 100V
1-108-367-00 s MYLAR 0.0015 10% 100V
1-108-369-00 s MYLAR 0.0022 10% 100V (EK)
1-106-184-00 s MYLAR 0.0033 10% 100V (EK)

C15 1-162-445-11 s CERAMIC 0.01 2KV

C16 1-102-047-21 s CERAMIC 0.01 1KV
C17 1-130-802-00 s FILM 0.022 5% 400V
C18 1-108-427-00 s MYLAR 0.033 10% 200V
C19 1-124-007-11 s ELECT 22 20% 25V
C20 1-131-381-21 s TANTALUM 47 10% 10V

CN1 1-564-007-00 o RECEPTACLE, 8P MALE
1-562-153-11 o PLUG HOUSING 8P
1-564-026-00 o PLUG CONTACT
CN2 1-564-004-00 o RECEPTACLE, 5P MALE
1-562-150-00 o PLUG HOUSING 5P
1-564-026-00 o PLUG CONTACT
CN3 1-564-002-00 o RECEPTACLE, 3P MALE
1-562-148-00 o PLUG HOUSING 3P
1-562-026-00 o PLUG CONTACT
CN4 1-564-004-00 o RECEPTACLE, 5P MALE
1-562-150-00 o PLUG HOUSING 5P
1-564-026-00 o PLUG CONTACT
CN5 1-564-001-11 o RECEPTACLE, 2P MALE
1-562-147-00 o PLUG HOUSING 2P
1-564-026-00 o PLUG CONTACT

CN6 1-564-001-11 o RECEPTACLE, 2P MALE
1-562-147-00 o PLUG HOUSING 2P
1-564-026-00 o PLUG CONTACT

Ref.No. Parts No. SP Description

D1 8-719-100-39 s RD6.2EB3

△ D2 8-719-100-39 s RD6.2EB3

D3 8-719-100-05 s 1S2837

D5 8-719-300-86 s RU1A

D8 8-719-100-03 s 1S2835

D9 8-719-300-76 s RH1A

△ IC1 8-759-145-58 s uPC4558C: NEC

△ HT1 1-453-097-11 s HIGH VOLTAGE BLOCK

L1 1-407-169-00 s MICRO 100

L2 1-407-165-00 s MICRO 47

L3 1-407-168-00 s MICRO 82

L4 1-407-169-00 s MICRO 100

LV1 1-459-664-12 s 350/103

Q1 8-729-100-66 s 2SC1623

Q2 8-729-100-66 s 2SC1623

Q3 8-729-100-66 s 2SC1623

Q4 8-729-100-66 s 2SC1623

Q5 8-729-100-66 s 2SC1623

Q6 8-729-100-66 s 2SC1623

Q7 8-729-100-66 s 2SC1623

Q8 8-729-301-87 s 2SD1083L

Q10 8-729-175-73 s 2SC2757

R1 1-216-065-00 s METAL CHIP 4.7K 5% 1/10W

R2 1-216-043-00 s METAL CHIP 560 5% 1/10W

△ R3 1-215-440-00 s METAL 6.2K 1% 1/6W

△ R4 1-215-430-00 s METAL 2.4K 1% 1/6W

R5 1-216-073-00 s METAL CHIP 10K 5% 1/10W

R6 1-216-089-00 s METAL CHIP 47K 5% 1/10W

R7 1-216-089-00 s METAL CHIP 47K 5% 1/10W

R8 1-216-061-00 s METAL CHIP 3.3K 5% 1/10W

R9 1-216-069-00 s METAL CHIP 6.8K 5% 1/10W

R10 1-216-071-00 s METAL CHIP 8.2K 5% 1/10W

Ref.No.	Parts No.	SP Description
R11	1-216-049-00	s METAL CHIP 1K 5% 1/10W
R12	1-216-037-00	s METAL CHIP 330 5% 1/10W
R13	1-216-043-00	s METAL CHIP 560 5% 1/10W
R14	1-216-049-00	s METAL CHIP 1K 5% 1/10W
R15	1-216-069-00	s METAL CHIP 6.8K 5% 1/10W
R16	1-216-065-00	s METAL CHIP 4.7K 5% 1/10W
R17	1-216-065-00	s METAL CHIP 4.7K 5% 1/10W
R18	1-216-069-00	s METAL CHIP 6.8K 5% 1/10W
R19	1-216-057-00	s METAL CHIP 2.2K 5% 1/10W
R20	1-216-089-00	s METAL CHIP 47K 5% 1/10W
R21	1-216-025-00	s METAL 100 5% 1/10W
R22	1-216-085-00	s METAL CHIP 33K 5% 1/10W
R23	1-216-041-00	s METAL CHIP 470 5% 1/10W
R24	1-216-049-00	s METAL CHIP 1K 5% 1/10W
R25	1-216-073-00	s METAL CHIP 10K 5% 1/10W
R26	1-216-073-00	s METAL CHIP 10K 5% 1/10W
R27	1-216-023-00	s METAL CHIP 82 5% 1/10W
R28	1-216-057-00	s METAL CHIP 2.2K 5% 1/10W
R29	1-216-049-00	s METAL CHIP 1K 5% 1/10W
R30	1-216-009-00	s METAL CHIP 22 5% 1/10W
R31	1-216-057-00	s METAL CHIP 2.2K 5% 1/10W
R33	1-214-960-00	s METAL 680K 1% 1/4W
R34	1-215-474-00	s METAL 160K 1% 1/6W
R35	1-216-023-00	s METAL CHIP 82 5% 1/10W
R36	1-216-061-00	s METAL CHIP 3.3K 5% 1/10W
R37	1-216-049-00	s METAL CHIP 1K 5% 1/10W
R38	1-216-025-00	s METAL CHIP 100 5% 1/10W
R39	1-216-079-00	s METAL CHIP 18K 5% 1/10W
R40	1-214-964-00	s METAL 1M 1% 1/4W
R41	1-214-964-00	s METAL 1M 1% 1/4W
R42	1-216-023-00	s METAL CHIP 82 5% 1/10W
R43	1-216-023-00	s METAL CHIP 82 5% 1/10W

ARV1	1-230-520-11	s METAL 1K
RV2	1-228-452-00	s METAL 50
RV3	1-226-279-00	s METAL 2M
RV4	1-230-529-11	s METAL 470K

Ref.No.	Parts No.	SP Description
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VF-23 BOARD

△A-7513-075-A	o MOUNTED CIRCUIT BOARD "VF-23" (UC)
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△A-7513-076-A	o MOUNTED CIRCUIT BOARD "VF-23" (EK)
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C1	1-123-617-00	s ELECT 10 20% 16V
C3	1-131-346-00	s TANTALUM 0.68 10% 35V
C4	1-123-608-00	s ELECT 0.22 20% 50V
C5	1-130-481-00	s MYLAR 0.0068 5% 50V
C6	1-130-479-00	s MYLAR 0.0047 5% 50V
C7	1-163-035-00	s CERAMIC CHIP 0.047 50V
C8	1-163-035-00	s CERAMIC CHIP 0.047 50V
C9	1-131-374-00	s TANTALUM 33 10% 16V
C10	1-131-347-00	s TANTALUM 1 10% 35V
C11	1-124-141-00	s ELECT 330 20% 10V
C12	1-130-481-00	s MYLAR 0.0068 5% 50V
C13	1-123-611-00	s ELECT 1 20% 50V
C14	1-130-487-00	s MYLAR 0.022 5% 50V
C15	1-123-617-00	s ELECT 10 20% 16V
C16	1-124-140-00	s ELECT 220 20% 10V
C17	1-163-021-00	s CERAMIC CHIP 0.01 50V
C18	1-124-462-00	s ELECT 10 20% 16V
C19	1-123-902-00	s ELECT 0.68 20% 50V
C20	1-123-661-00	s ELECT 100 20% 6.3V
C21	1-124-135-00	s ELECT 470 20% 6.3V
C22	1-163-141-00	s CERAMIC CHIP 0.001 10% 50V
C23	1-163-145-00	s CERAMIC CHIP 0.0015 10% 50V

CN1	1-564-005-00	o RECEPTACLE, 6P MALE
	1-562-151-11	o PLUG HOUSING 6P
	1-564-026-00	o PLUG CONTACT
CN2	1-564-001-11	o RECEPTACLE, 2P MALE
	1-562-147-00	o PLUG HOUSING 2P
	1-564-026-00	o PLUG CONTACT

D1	8-719-101-23	s 1SS123
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△IC1	8-759-300-28	s HA11423MP: HITACHI
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Ref.No. Parts No. SP Description

Q1 8-729-100-66 s 2SC1623
Q2 8-729-100-66 s 2SC1623
Q3 8-729-100-76 s 2SA812

AR1 1-216-109-00 s METAL 330 5% 1/10W

AR2 1-216-083-00 s METAL CHIP 27K 5% 1/10W

R3 1-216-067-00 s METAL 5.6K 5% 1/10W
R4 1-216-049-00 s METAL CHIP 1K 5% 1/10W
R5 1-216-075-00 s METAL CHIP 12K 5% 1/10W

R6 1-216-093-00 s METAL CHIP 68K 5% 1/10W
R7 1-216-079-00 s METAL CHIP 18K 5% 1/10W
R8 1-216-071-00 s METAL CHIP 8.2K 5% 1/10W
R9 1-216-083-00 s METAL CHIP 27K 5% 1/10W
R10 1-216-027-00 s METAL CHIP 120 5% 1/10W

R11 1-216-073-00 s METAL CHIP 10K 5% 1/10W
R12 1-216-097-00 s METAL CHIP 100K 5% 1/10W
R13 1-216-061-00 s METAL CHIP 3.3K 5% 1/10W
R14 1-216-025-00 s METAL CHIP 100 5% 1/10W
R15 1-216-025-00 s METAL CHIP 100 5% 1/10W

R16 1-216-093-00 s METAL CHIP 68K 5% 1/10W
R17 1-216-071-00 s METAL CHIP 8.2K 5% 1/10W
R18 1-216-001-00 s METAL CHIP 10 5% 1/10W
R19 1-216-067-00 s METAL CHIP 5.6K 5% 1/10W
R20 1-216-081-00 s METAL CHIP 22K 5% 1/10W

R21 1-216-061-00 s METAL CHIP 3.3K 5% 1/10W
R22 1-216-059-00 s METAL CHIP 2.7K 5% 1/10W
R23 1-215-377-00 s METAL 15 1% 1/6W
R24 1-215-377-00 s METAL 15 1% 1/6W (UC)
R24 1-215-382-00 s METAL 24 1% 1/6W (EK)

R25 1-216-097-00 s METAL CHIP 100K 5% 1/10W
R26 1-216-069-00 s METAL CHIP 6.8K 5% 1/10W
R27 1-247-767-00 s CARBON 2.2 5% 1/6W
R28 1-247-767-00 s CARBON 2.2 5% 1/6W

RV1 1-230-522-11 s METAL 4.7K
RV2 1-230-520-11 s METAL 1K
RV3 1-230-519-11 s METAL 470
RV4 1-230-522-11 s METAL 4.7K

Ref.No. Parts No. SP Description

SW-91 BOARD

1-610-102-00 o PRINTED CIRCUIT BOARD
"SW-91"

RV1 1-230-075-00 s CARBON 2K
RV2 1-230-075-00 s CARBON 2K

S1 1-554-078-21 s SLIDE

VIEWFINDER FRAME

1-526-540-00 o SOCKET, CRT

1-546-043-11 o PICTURE TUBE 40LB4

CN1 1-556-889-51 s 8P PLUG WITH HARNESS (VF)
CN2 1-451-233-00 s DEFLECTION YOKE

D6 8-719-905-56 s EBR5504A "TALLY"
D8 8-719-800-25 s TLR109A "REC"
D9 8-719-900-25 s TLR109A "BATTERY"
D11 8-719-800-19 s TLR102A "+18dB"

Q9 8-729-315-63 s 2SB856

ZOOM LENS

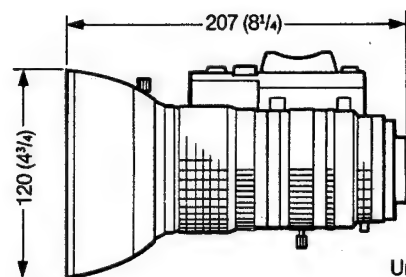
VCL-915BYA



SPECIFICATION

Focal length	9.5 mm to 143 mm
Zoom	Manual and motorized, selectable Zooming ratio: 15 ×
Maximum aperture ratio	1.8
Iris control	Manual and auto, selectable 1.8 to 16 and C (closed)
Range of object field (at the distance of 0.95 m)	W (wide angle): 601 × 801 mm (23 ³ / ₄ × 31 ⁵ / ₈ inches) T (telephoto): 41 × 54 mm (1 ⁵ / ₈ × 2 ¹ / ₄ inches)
Minimum object distance	0.95 m
Filter thread	82 mm dia., 0.75 pitch
Mount	Bayonet mount
Weight	Approx. 1.5 kg (3 lb 5 oz) with hood
Supplied accessory	Operating instructions (1)

Dimensions



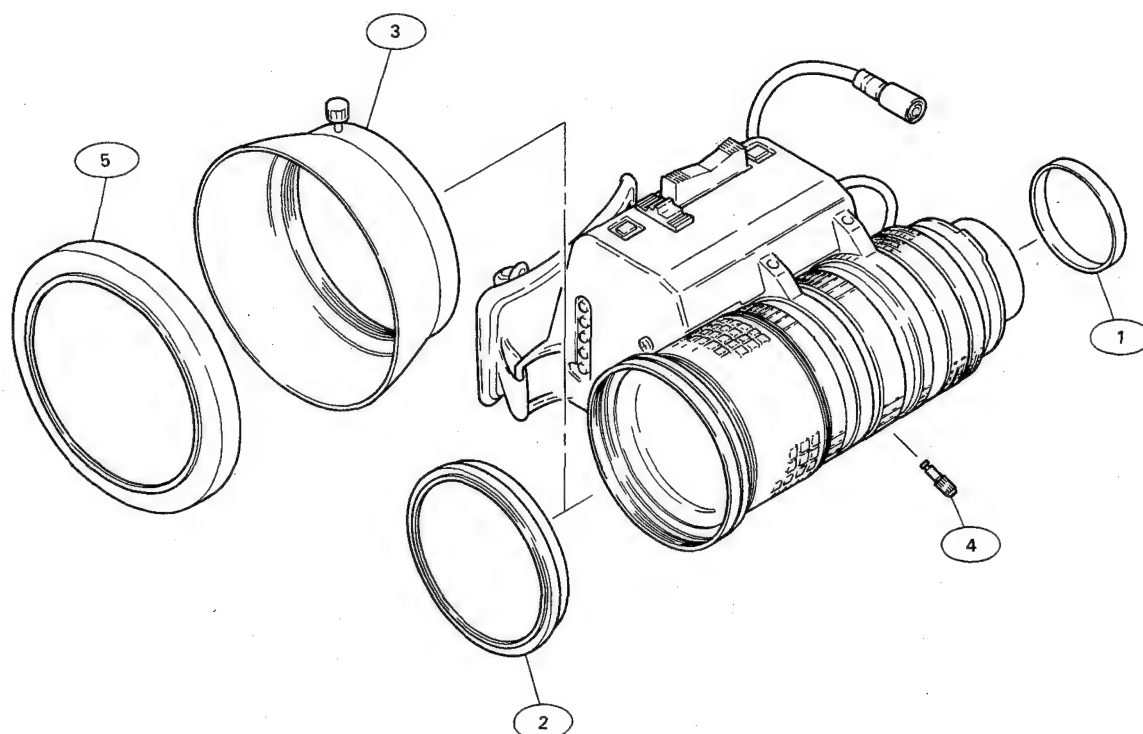
Unit: mm
(inches)

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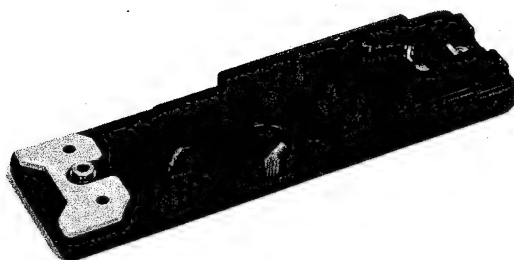
EXPLODED VIEW

No.	Parts No.	SP Description
1	3-707-412-01	o CAP, DUST
2	3-707-413-01	o CAP, LENS
3	3-707-411-01	o FOOD
4	3-707-037-01	o LEVER, ZOOM
5	3-707-034-01	o CAP, FOOD



TRIPOD ATTACHMENT

VCT-14



SPECIFICATION

Dimensions	Aprox. 282 x 27 x 80 mm (w/h/d) (11 $\frac{1}{8}$ x 1 $\frac{1}{8}$ x 3 $\frac{1}{4}$ inches)
Weight	Approx. 0.9 kg (2 lb)

Design and specifications subject to change without notice.

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SERVICE MANUAL

TABLE OF CONTENTS

1. GENERAL DESCRIPTION

- 1-1. Attachment 1-1
- 1-2. How to Detach the Camera 1-2

2. SPARE PARTS

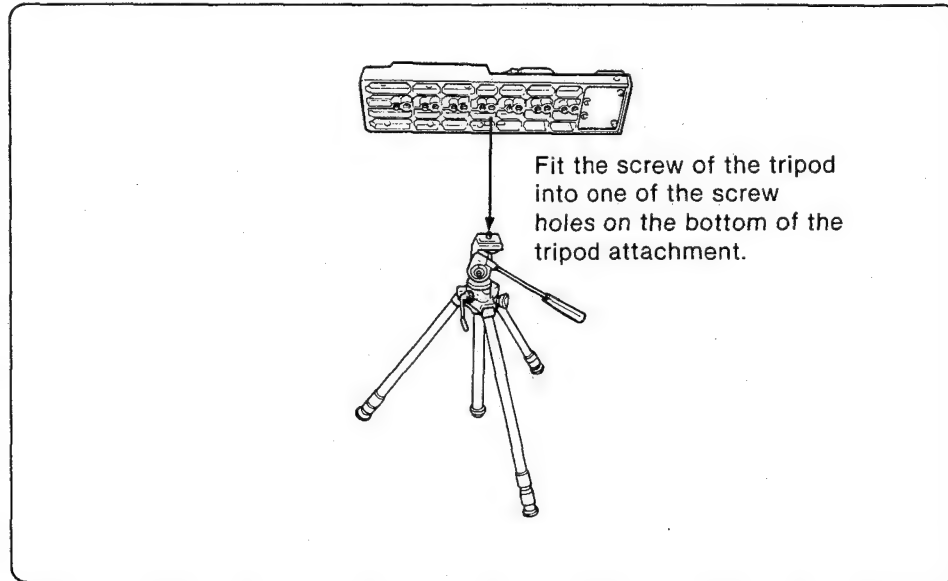
- 2-1. Exploded View 2-1

SECTION 1

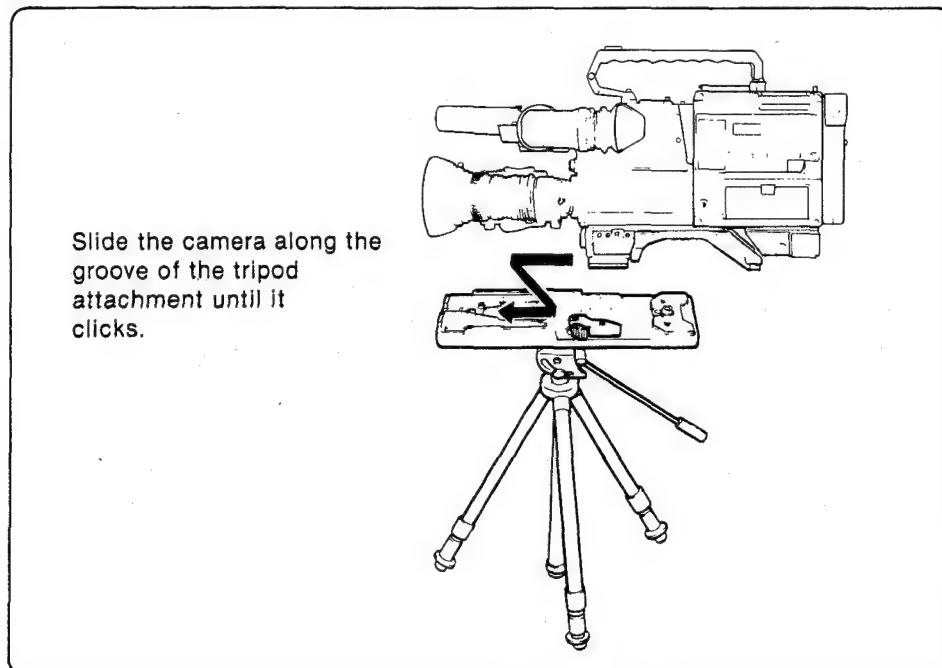
GENERAL DESCRIPTION

1-1. ATTACHMENT

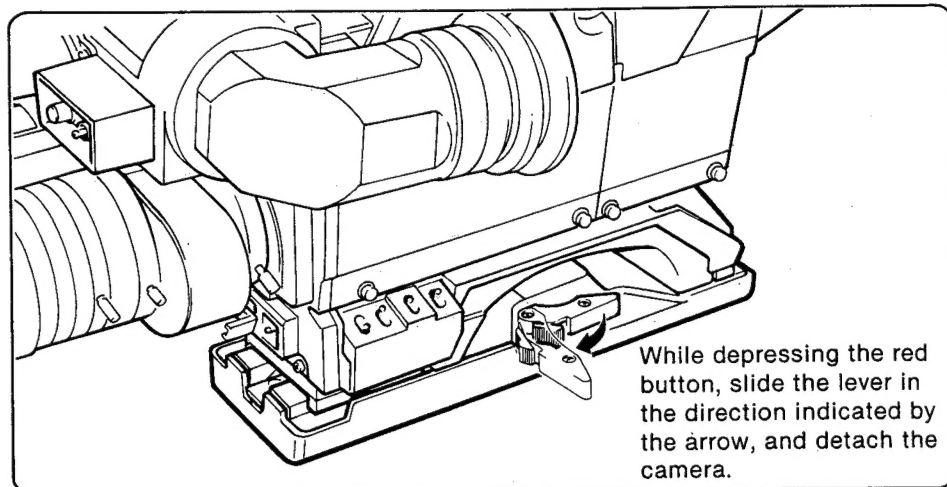
- 1** Attach the tripod attachment to the tripod.



- 2** Attach the camera to the tripod attachment.

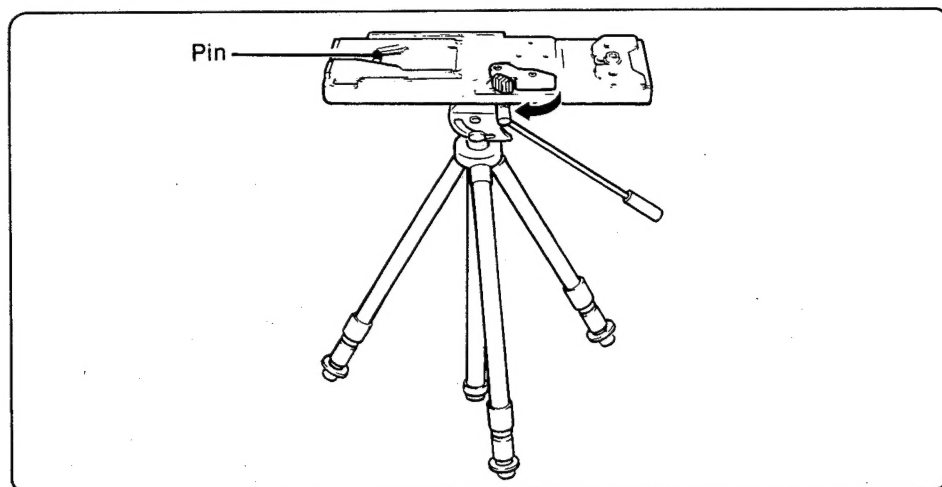


1-2. HOW TO DETACH THE CAMERA



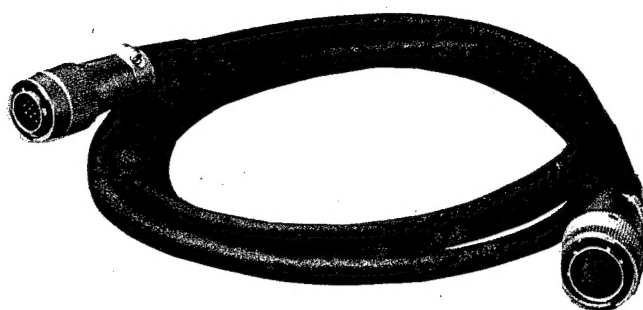
NOTE

While the camera holding pin remains in the center of the tripod attachment after the camera has been detached, the camera cannot be attached to the attachment. In that case, depress the red button, slide the lever in the direction indicated by the arrow and move the pin back to its proper position.



CAMERA CABLE

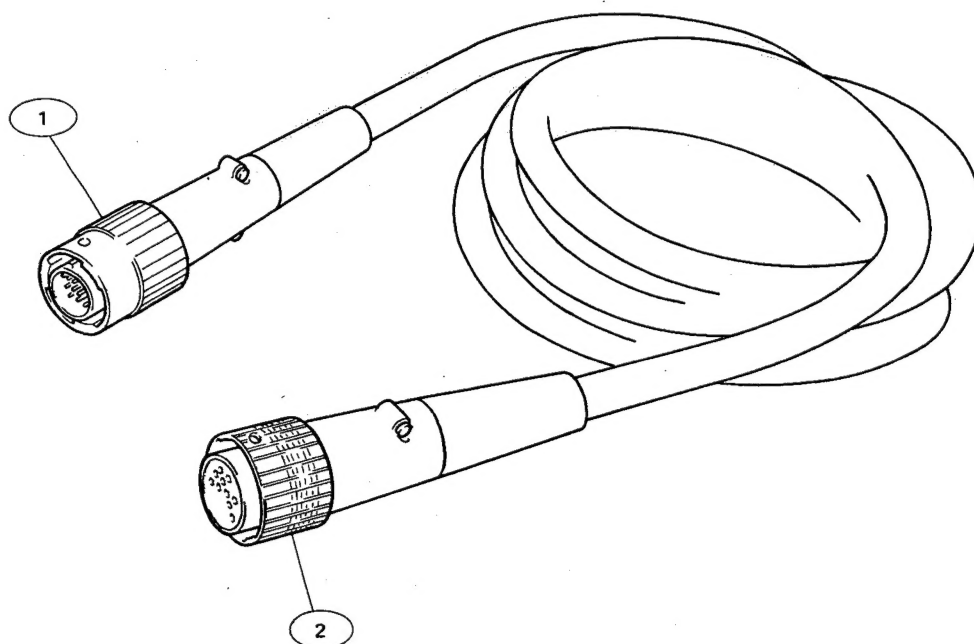
CCZQ-A2



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EXPLODED VIEW

No.	Parts No.	SP Description
1	1-508-929-00	s CONNECTOR, 14P MALE
2	1-564-184-00	s CONNECTOR, 26P FEMALE



SECTION 2 SPARE PARTS

XPLODED VIEW

No.	Parts No.	SP Description
1	2-381-631-01	o SPRING
2	2-381-632-01	o ARM, LOCKER
3	2-381-633-01	o SOLENOID
4	2-381-635-01	o LEVER, LOCK
5	2-381-636-01	o KNOB
6	2-381-637-01	o SPRING
7	2-381-638-01	o SPRING
8	2-381-640-01	o DOG
9	2-381-641-01	o COLLAR
10	2-381-642-02	o MOUNT
11	2-381-648-01	o INSULATOR, KNOB
12	2-381-652-01	o SPRING, TENSION
13	3-678-704-00	o SPACER
14	3-720-906-01	o LID (S), REAR
15	3-720-907-01	o PIN (S), REAR
16	3-720-908-01	o TABLE (S), PIN, REAR
17	3-720-909-01	o KNOB, CRANK
18	3-720-910-01	o SHEET, SLIDE
19	3-720-911-01	o BASE, TRIPOD FITTING SCREW
20	3-720-912-01	o FRAME (S)
21	OPTIONAL ACCESSORY: TRIPOD ATTACHMENT "VCT-14"	

TRIPOD ATTACHMENT

